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CORONARY THROMBOSIS AMONG PERSONS LESS THAN FORTY YEARS OF AGE*

A Study of Thirty Cases

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ONE of the alarming problems of present-day medicine is the increasing incidence of coronary thrombosis and its more frequent occurrence in the younger age periods of life. The first description of the disease with correct clinical diagnosis in this country is found in Herrick's classical article of 1912. In the article he cited two cases in which the patients were young persons, one a man thirty-two years of age, the case reported by Chiari, and the other a man thirty-seven years of age, the case reported by Merkel.

Our interest in the occurrence of coronary thrombosis of young patients involves the broader concepts of coronary sclerosis and afherosclerosis and this study was undertaken to investigate various clues with special reference to the genesis of the disease.

Material

Thirty cases of unquestioned coronary thrombosis comprised the basis for this study. The criteria on which the cases were selected included (1) typical histories of the disease given by patients who had experienced attacks before they came under our observation and who had electrocardiographic relics, and (2) typical clinical phenomena discovered in examination of patients who suffered thrombotic closure while under observation at The Mayo Clinic, confirmed by characteristic electrocardiographic changes or verification at necropsy.

Incidence by Age and Sex

All but three patients were recorded as being between the ages of thirty and thirty-nine years. One of these patients was twenty-two years of age and the other two were twenty-nine. The average age for the group, exclusive of the three patients who were less than thirty years of age, was 34.7, while that for the males was 34.7 years and for the females 34.6 years.

However, the occurrence of coronary thrombosis somewhat later in the lives of women than of men has been emphasized by Willius in a series of 370 cases.

There were twenty-four males and six females, a ratio of 4:1. This is in line with all previously reported studies of the sex incidence of coronary thrombosis. The sex discrepancy of coronary disease is one of the most intriguing problems of the many that remain unsolved and, as intimated in a previous study, may ultimately be answered by studies in biochemistry.

Racial Trends

The number of cases in this group was not sufficiently large to permit the derivation of reliable racial trends. Sixteen patients were of American parentage while the remaining patients were fairly equally divided among seven foreign ancestries.

Hereditary Trends

The occurrence of coronary disease among patients whose family histories reveal the repetition of cardiovascular disease among their an-

^aFrom The Mayo Foundation (Goodson) and the Section on Cardiology (Willius), The Mayo Clinic, Rochester, Minnesota.

MAY, 1939

cestors has repeatedly been the basis for comment. In a recent study of 300 cases of coronary thrombosis, Goldsmith and Willius showed that a family history of cardiovascular renal disease occurred in 55 per cent of the cases. In this study, 65 per cent of the patients related family histories which included angina pectoris, coronary thrombosis, sudden death, or "heart disease." The hereditary trend in this study closely paralleled that referred to in the previous report.

The previous illnesses experienced by these patients were in no sense unusual but represented the usual infectious diseases of childhood and adolescence and could in no manner be related to the premature development of coronary disease. In three cases the history of previous rheumatic fever was elicited but in no instances were relics of cardiac disease demonstrated and it appeared improbable that the coronary changes were associated with antecedent rheumatic coronary arteritis.

Use of Tobacco

Concerning twenty-six of the patients, the history of the use of tobacco was recorded. Nineteen (73 per cent) smoked cigarettes; nine smoked excessively and ten moderately; seven did not smoke. None of the women were recorded as smokers. As these figures are not controlled they are only of passing interest, but this subject is under investigation at present on a much broader scale.

Other Clinical Data

In eight cases the anginal syndrome preceded acute coronary closure by an interval of from one day to six months. The average interval was a month and a half. In the remaining twenty-two cases, coronary thrombosis was the first expression of the disease.

Three patients were engaged in strenuous work when the arterial closure occurred, eight were participating in moderate activity, four had just completed a meal, three had just awakened from sleep, while the status of activity of the remaining twelve patients was not determined.

In three cases the attack was without pain; one patient experienced severe nausea, another a feeling of suffocation, and the last a sense of distention. In the other cases the conventional phenomena of the disease were present.

Electrocardiographic Findings

Electrocardiographic examination was conducted in twenty-nine cases. The patient who was not subjected to this examination was under observation at The Mayo Clinic only a short time before death occurred, but postmortem study revealed acute infarcts. Owing to certain unusual features, the case of this twenty-two-year-old woman will be detailed later.

The electrocardiograms of twenty-four patients clearly verified the clinical diagnosis of coronary thrombosis. In five cases, electrocardiograms that were made a considerable time after the occlusion were essentially normal.

The infarcts, as indicated by the electrocardiographic patterns,² were in the anterior wall of the left ventricle in nine cases. Eight of the electrocardiograms were of the T_1 pattern while one was of the Q_1T_1 pattern. In fifteen cases the infarcts were in the posterior basal portion of the left ventricle, the region customarily supplied by branches of the right coronary artery. The patterns were of the T_3 type in nine cases, of the Q_3 type in two cases, and of the Q_3T_3 type in four cases.

The incidence of infarcts of the posterior basal region of the left ventricle in this group greatly exceeds that previously reported and may be a wholly coincidental occurrence.

Mortality

At the time of conclusion of this study eight patients (26.6 per cent) were known to be dead and their average period of survival following the first thrombotic occlusion was twenty-two months. Two died the day of the second occlusion. Ten (28 per cent) of the patients ultimately had two attacks of coronary thrombosis ranging from one month to six years following the first. In one case in this series, previously reported by Smith and Bartels, there were at least four infarcts; the conglomerate involvement of the myocardium made accurate delineation impossible, although the anterior right coronary artery was completely occluded at two points, the anterior descending branch of the left coronary artery at one point and an anomalous left circumflex artery at two points.

Postmortem examination was conducted in five cases, which included four males and one female.

The first case, that of a man thirty-five years of age at death, already has been mentioned.

The heart weighed 715 gm. and was the site of multiple infarcts. In the coronary arteries, evidence was found of atherosclerosis, grade 3. The second case was that of a man, thirty-six years of age at death. A huge, acute infarct involved the apex of the left ventricle. The anterior descending branch of the left coronary artery was completely obstructed by a fresh thrombus. The heart weighed 540 gm. Atherosclerosis, grade 3, of the coronary arteries, was present.

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In the third case the patient was a man who died, aged thirty-seven years. An extensive, healed infarct of the left ventricle near the apex was found. Considerable myofibrosis of the left ventricle was present. The heart weighed 450 gm. Atherosclerosis, grade 2+, of the coronary arteries was present.

The patient in the fourth case, a man, died at the age of thirty-eight years. Postmortem examination revealed an acute infarct of the left ventricle corresponding to the distribution of the anterior descending branch of the left coronary artery. Also, there was a healed infarct involving the posterior basal region of the left ventricle and resulting from a previous thrombotic occlusion of the right circumflex artery. The heart weighed 457 gm. Examination of the coronary arteries disclosed atherosclerosis, grade 2.

The fifth case merits special consideration owing to certain unusual circumstances and owing to its similarity to a case reported by White, Glendy and Gustafson. The patient, a woman, twenty-two years of age, was in the third month of her first pregnancy when death occurred. The onset of her fatal illness coincided with a fall from a low porch, at which time a head injury was sustained. She was found on the ground unconscious and did not regain consciousness before her death, sixteen hours later. In

view of the postmortem findings it could not be ascertained whether the fall was occasioned by the severe pain of coronary thrombosis or whether coronary thrombosis occurred as a consequence of a head injury resulting in shock and unconsciousness. There was an acute infarct of the posterior wall of the right ventricle and likewise a linear infarct in the central portion of the interventricular septum, extending from the base to the apex. The heart weighed 282 gm. and there was no atherosclerosis of the coronary arteries. Examination of the brain disclosed petechial hemorrhages in the cortex of the right frontoparietal region.

Comment

The report of these cases of coronary thrombosis of young persons is justified in again emphasizing the fact that this disease is occurring with increasing frequency among young persons. Likewise, it is intended to recall to mind the fact that an alert suspicion regarding its occurrence among young people must be maintained. The general phenomena of coronary thrombosis of the young do not differ materially from those of the same condition when it affects older persons.

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LATE RESULTS OF THORACOPLASTY*

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NY attempt to evaluate thoracoplasty as a therapeutic measure for pulmonary tuberculosis must be based upon recognition of the fact that thoracoplasty patients constitute a limited and select group. Only a comprehensive survey of the fate of a large, unselected series of tuberculous patients treated by diverse medical and surgical means serves to place the operation of thoracoplasty in its true perspective. Data now being collected at the Minnesota State Sanatorium will soon permit an analysis of the results of treatment of all patients admitted to the Sanatorium. In that study, however, reference to the thoracoplasty series will necessarily be so brief that we wish, at this time, to report in more detail follow-up data pertaining to fifty patients subjected to thoracoplasty prior to January 1, 1937.

All of the patients in this series originally admitted to the Minnesota State Sanatorium were operated on at the University of Minnesota Hospital over a period of eleven years (1926 to 1936, inclusive). Patients operated on for tuberculous empyema were excluded. The fifty thoracoplasties were performed in multiple stages totaling one hundred and thirty-one primary thoracoplasty operations. Subsequently five of the patients required revision of thoracoplasty performed in eight stages. The fifty patients, therefore, were subjected to a total of one hundred and thirty-nine thoracic operations. As some State Sanatorium patients have been operated upon elsewhere and as the University Hospital admits patients from other Sanatoria, the series obviously represents only a fraction of the thoracoplasty experience of the two institutions, but it seemed best to restrict the study to those who had had the same institutional care in order to present a more uniform series and to avoid duplicating follow-up studies that may be reported elsewhere.

Analysis of Material

All of the patients but two were of the white race, one being Chinese, the other part white and

part Chippewa Indian. The ages at the time of operation varied from seventeen to fifty years. As nineteen (38 per cent) were past thirty-five years and nine (18 per cent) past forty years, patients regarded as "old for thoracoplasty" were well represented. Women outnumbered the men 31 (62 per cent) to 19 (38 per cent).

It is hardly possible to present an adequate picture of the extent and character of the pulmonary disease of this group of patients by means of any system of classification. All were classified as far-advanced. Productive lesions were the rule, but in about 10 per cent of the cases the disease was predominantly exudative. All had cavitation. In twenty-six (52 per cent) the disease was essentially unilateral, in twenty-two (44 per cent) bilateral with unilateral cavitation, and in one (2 per cent) bilateral with definite bilateral cavitation.* Measurement of cavities on the x-ray film revealed that in twelve (24 per cent) the cavity measured 2 cm. or less in diameter, twenty-four (48 per cent) measured 2 to 5 cm., and thirteen (26 per cent) more than 5 cm.* Lesions of the left side predominated, the more extensive lesion occurring on the left in thirty-one (62 per cent).

Definite shift of the mediastinum to the affected side occurred in thirty (60 per cent). Dense shadows with mediastinal retraction indicating atelectasis or extensive lung fibrosis occurred in twenty-three (46 per cent). Bronchiectasis was demonstrated by bronchography in only six (12 per cent) but as the earlier patients did not have lipiodol aspirations the actual incidence of dilated bronchi was undoubtedly greater. Other associated thoracic conditions were as follows: pneumothorax three (6 per cent), pleural effusion two (4 per cent), oleothorax one (2 per cent), calcification of pleura one (2 per cent).

Technic of Thoracoplasty

Since 1926 when the first thoracoplasty in this series was performed, the technic of operation has undergone a gradual evolution. From 1926

^{*}From the Minnesota State Sanatorium and the Department of Surgery, University of Minnesota.

^{*}One patient not classified.

through 1930 the operation usually consisted of a paravertebral resection of eleven ribs, performed in two stages (Fig. 1). Only two of the fourteen patients operated on during that period had resection of less than ten ribs. The lower stage operation was performed first in three cases. All others had the upper stage performed first. This stage consisted of resection of five or six or even seven ribs. The segment of rib removed was seldom longer than 12 cm. and the resection of the first rib in some instances was limited to the removal of as little as 1 cm. of rib.

From 1931 through 1933 the operation was modified in that longer rib segments were removed. Six of the sixteen patients operated on during this period had antero-lateral thoracoplasty performed as the final stage. Only five patients among the sixteen had resections of less than ten ribs.

Beginning in 1934 a further modification of the technic of thoracoplasty was introduced at the University Hospital by O. H. Wangensteen. This modification consisted of performing an anterior chondrocostectomy as a preliminary stage. A week or two later total resection of the upper three ribs was performed through a posterior incision. A second posterior operation consisted of resection of two or three or four more ribs. The resulting thoracoplasty involving five to seven ribs and including complete removal of the upper three or more ribs and costal cartilages was often found to be adequate but if necessary an additional stage was performed to include resection as low as the ninth or tenth rib (Fig. 2).

During the period 1934 through 1936, fifteen of twenty patients had resection of less than ten ribs and ten patients had resection of less than eight ribs. Attention was also directed toward further shortening the posterior segment, the rib being divided under the transverse process or the transverse process itself being resected with the rib close to the body of the vertebra. It was during this period also that the extrafascial apicolysis of Semb was popularized but only three of the patients referred to here were subjected to extrafascial apicolysis. A more complete description of the technic developed during the years 1934 to 1936 is reported elsewhere by Wangensteen, Carlson and Bowers.

The anesthetic employed in most instances was nitrous oxide or ethylene, although cyclo-propane is now preferred. Novocaine infiltration was used occasionally but was regarded as less satisfactory than modern inhalation anesthesia.

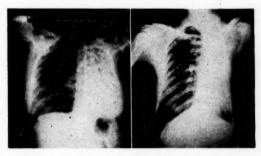


Fig. 1 (left). Example of paravertebral thoracoplasty performed in two stages in 1928. Eleven ribs were resected but collapse is unsatisfactory because only short paravertebral rib segments were resected. The patient is still alive ten years after operation but sputum is positive, cavity open.

Fig. 2 (right). Example of thoracoplasty performed in four stages in 1935. The upper four ribs and costal cartilages were completely removed and six additional ribs were resected. Anatomical collapse is much superior to that shown in Figure 1. The patient is alive, practically without symptoms, sputum is negative, cavity closed.

Late Results

In our study of the late results of thoracoplasty, information was obtained from sanatorium records, x-ray examination, bacteriological study of the sputum, and also by questionnaires sent to patients and physicians. Chief reliance is placed upon recent x-ray and sputum examinations. In this connection it must be obvious that the manner in which data are collected is fully as important as the tabulated statistics. Such terms as "positive" or "negative" sputum are meaningless unless one first establishes a definition of negative sputum based upon definite, rigid criteria. The question of whether a cavity is "open" or "closed" on x-ray examination is also subject to wide interpretation. Negative sputum, as defined here, denotes that guinea pig inoculation of sputum has been reported negative following a succession of negative monthly flotation tests over a period of not less than six months and that subsequently during the patient's residence in the sanatorium or after discharge to his home over a period of months or years the sputum has consistently remained negative.

X-ray interpretation in recent years has been more accurate than formerly due largely to the more frequent employment of special technic,

THORACOPLASTY-CARLSON, BURNS AND WANGENSTEEN

TABLE I. RESULTS OF THORACOPLASTY (Status of sputum and cavity in 1938)

	Year of Operation			Totals
	1926-1930	1931-1933	1934-1936	1926-1936
Cavity closed and sputum negative	5 (36%)	9 (56%)	11 (55%)	25 (50%)
Living Status of sputum or cavity doubtful	2 (14%)	2 (12%)	4 (20%)	8 (16%)
Cavity open or sputum positive	2 (14%)	1 (6%)	2 (10%)	5 (10%)
Dead	5 (36%)	4 (25%)	3 (15%)	12 (24%)
Total number in each period	14	16	20	50

TABLE II. INFLUENCE OF SIZE OF CAVITY ON RESULT (Status of sputum and cavity)

	Size of Cavities			
	0-2 cm.	2-5 cm.	More than 5 cm.	Totals
Cavity closed and sputum negative	10 (83%)	10 (41%)	5 (38%)	25 (50%)
Living Status of sputum or cavity doubtful	0	7 (30%)	1 (8%)	8 (16%)
Cavity open or sputum positive	0	3 (12%)	2 (15%)	5 (10%)
Dead*	2 (17%)	4 (17%)	5 (38%)	12 (24%)*
Totals	12	24	13	50

^{*}One patient not classified-Films not found.

such as increased penetration, Bucky diaphragm, stereoscopic, lateral or oblique films, or the introduction of lipiodol. Despite these advances the roentgen film does not give infallible evidence concerning the fate of pulmonary lesions that have been collapsed by thoracoplasty. In presenting our data, therefore, it seemed best to combine the evidence obtained from both x-ray and sputum examinations (Table I). Comparison of the data in three successive periods (Table I) suggests that improved results have been obtained in recent years although the most recent period (1934-1936) contains the greatest number of patients in which the results of treatment are not clearly determined. One recent patient, for example, is classified among the doubtful results merely because of a recent positive guinea pig report despite the fact that the sputum has repeatedly been negative on flotation tests.

X-ray films permit us to compare the degree of collapse obtained by the modern thoracoplasty as compared with that performed earlier. Films of patients operated on during the years 1926 to 1930 reveal that only a partial collapse of the thoracic cage was attained, a collapse which we now consider inadequate (Fig. 1). During the years 1931 to 1933 the collapse was more satisfactory but in many instances still inadequate. Since 1934 the collapse of the upper portion of the thoracic cage has almost invariably been good (Fig. 2). Comparison of films of these three different periods reveal quite clearly that failure to obtain the desired clinical result in some of the earlier cases was, without doubt, due to the incomplete removal of segments of ribs in the region of pulmonary cavities.

The x-ray films also provide an interesting record of changes occurring on the unoperated side. In three instances (6 per cent) the contralateral lung was worse after operation, in thirty-eight (76 per cent) it remained practically unchanged and in eight (16 per cent) it showed definite improvement.*

^{*}One not classified.

The results of thoracoplasty are not determined entirely by the type of operation but are influenced primarily by certain characteristics of the pulmonary disease such as the size of cavities, thickness of cavity walls, bronchial stenosis, bronchiectasis, thickened pleura, et cetera. Evidence presented in Table II supports the belief that the size of the cavity is important, as cavities measuring 2 cm. or less were closed about twice as frequently as those measuring more than 5 cm.

Health of Surviving Patients

Answers to questionnaires from patients and physicians reveal that of the thirty-eight survivors all but one report clinical improvement and three are entirely symptom-free. Seventeen are known to be working full time or part time, eleven are living at home but are unemployed, three failed to report whether they were working, and seven are still in the sanatorium.

Six of the seven patients who still reside in the sanatorium are ambulant or semi-ambulant; one, as a consequence of a mixed tuberculous empyema, must remain in bed. One patient of this group has a negative sputum and is about ready for discharge, the sputum of another is positive only on guinea pig inoculation but in this case the presence of a slit-like cavity has been demonstrated by x-ray. The other five patients have positive sputum on flotation. One of the latter has a tuberculous laryngitis.

Further surgery has been recommended for three of the patients now residing in the sanatorium. Additional surgery is definitely contraindicated in the case of the patient with empyema referred to above because of extensive pulmonary disease.

Mortality

It will be noted (Table I) that twelve (24 per cent) of the patients are now dead, eighteen months to twelve years after operation. This tabulation includes deaths from all causes and, obviously, should not be considered as a report of operative mortality. Only one post-operative death occurred among the fifty primary thoracoplasties performed in 131 stages. The case operative mortality, therefore, is 2 per cent; the stage operative mortality is 0.7 per cent. All other deaths occurred from six months to thirtynine months after operation.

One of the late deaths was also due to operation as it occurred following a revision operation performed one year after the patient had survived the original three-stage thoracoplasty, including an extrafascial apicolysis. This patient was one of five who had revision of thoracoplasty performed in eight stages. The case mortality for revision of thoracoplasty in this small series, therefore, was 20 per cent.

Ten deaths remain to be explained. Six are known and two others are believed to have been due to progress of the tuberculosis. One patient who had a negative sputum and a closed cavity on x-ray examination died of glomerulonephritis (no necropsy); one who at necropsy was found to have quiescent pulmonary disease (cavity closed by thoracoplasty) died of cardiac disease three years after thoracoplasty.

Comment

The late results reported here appear to be somewhat better than the collected statistics of Hedblom and Van Hazel, which include the experience of Bull, Key, Schedtler, Denk and others. They found that "among 3,762 patients followed for from one to twelve years after operation 35.3 per cent were free from symptoms and bacilli and were able to work; 22.1 per cent were improved and able to do some work; 5.5 per cent were not improved or were made worse by the operation; 3.5 per cent were not traced; 33.6 per cent were dead at the time of the report." On the other hand our data are not so encouraging as the more recent statistics of Haight and Alexander, who have reported on the results of the modern type of thoracoplasty performed upon 119 patients with cavernous pulmonary tuberculosis and positive sputum, with or without empyema, from the latter part of 1932 to the end of 1934. "Ninety-nine or 83.1 per cent of these patients have completely closed cavities and persistently negative sputum." However, direct comparison of these statistics is hardly possible. It suffices for our purposes to present the data pertaining to our particular group of patients and to stress the fact that tabulated results depend fully as much on the selection of patients for operation, the time that has elapsed since operation and the criteria for "negative sputum" and "closure of cavity" as on surgical methods.

The number of patients that have returned to work is not regarded by us as an accurate test of the success of thoracoplasty. Whether a patient works or not depends upon a number of conditions or attributes not necessarily related to physical health, such as ambition, confidence, capacity to become rehabilitated, and opportunities for employment. Some patients are known to have sought and found employment when their physical condition or sputum status contraindicated it; others, who appeared to be capable of working, remain idle.

Summary and Conclusions

- 1. A survey of the fate of fifty thoracoplasty patients eighteen months to twelve years after operation reveals that 76 per cent are living, 24 per cent are dead.
- 2. The primary case operative mortality was 2 per cent; the stage operative mortality 0.7 per cent.

- 3. One-half of the patients (50 per cent of the entire group) have both closed cavities on x-ray examination and negative sputum, including guinea pig inoculation.
- 4. Comparison of x-rays of three different periods (1926-1930), (1931-1933), (1934-1936) demonstrates that improved collapse has been obtained by modification of the technic of thoracoplasty.
- 5. The results of thoracoplasty are determined primarily by the pathologic characteristics of the pulmonary disease of patients selected for operation.

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PRIMARY CARCINOMA OF THE PANCREAS*

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PRIMARY carcinoma of the pancreas presents a painstaking but not insuperable diagnostic problem. We have reviewed thirty-nine cases recorded at the Ancker Hospital, Saint Paul, since 1925 and find that correct preoperative diagnoses were entered in at least fifteen cases (38 per cent). Though no biopsies of pancreatic tumors were made at the time of operation, all cases were proved by autopsy (thirty-four) or by operation (five).

The diagnosis is largely by exclusion. Most commonly, cancer of the head of the pancreas must be differentiated from stone in the common duct. For this purpose, the Watson test is very helpful. It should also be noted that, contrary to the usual teaching, jaundice is not a cardinal symptom of cancer of the head of the pancreas. It was not present in at least four and probably seven of the thirty-nine cases reviewed. X-ray examination of the stomach and duodenum, with negative findings except for the possible presence of an extrinsic mass, is also a

very valuable procedure in establishing a diagnosis of primary carcinoma of the pancreas.

Incidence

Cancer of the pancreas is not a rare disease. Primary carcinoma of the pancreas represented 4.8 per cent of all carcinoma cases in Massachusetts hospitals from 1928 to 1930, a survey by Howard M. Clute showed. Lewis reported an incidence of from 1.5 to 2 per cent; Hoffmann reported 3 per cent; N. Logan Leven reported from 1 to 2 per cent; F. W. Herrmann reported from 1.5 to 2 per cent. Our thirty-nine cases represent an incidence of 1.4 per cent of all the cases of carcinoma recorded at the Ancker Hospital since 1925.

Cancer of the pancreas was more common among males than among females, in the ratio of 2.5 to 1. There were 27 males and 12 females in the series. The disease is most common in the fifth and sixth decades. The average age of the patients in this series at the time of admission to the hospital was sixty-one years; the oldest, eighty-three, the youngest, twenty-

^{*}Thesis presented before the Minnesota Academy of Medicine, October 12, 1938.

seven. However, one case has been reported in a child two and a half years of age, and another in a newborn infant.

Tumors of the pancreas seem to be overwhelmingly carcinomatous. In reviewing 132 cases of tumors of the pancreas, Lewis found 127 to be carcinoma, two sarcoma, two cysts, and one a syphiloma.

Etiology

Exact knowledge as to the etiology of carcinoma of the pancreas is no further advanced than knowledge of cancer elsewhere in the body. Among the factors suggested as leading to the development of carcinoma of the pancreas are: (1) chronic pancreatitis, (2) gallstones, (3) cholecystitis, (4) alcoholism, (5) trauma, (6) developmental defects, and (7) syphilis.

Since only one case of syphilis (positive Wassermann) was recorded among the thirty-nine cases which we reviewed, it seems rather doubtful that syphilis need be considered an important etiologic factor in the development of carcinoma of the pancreas.

The carcinoma may be: (1) scirrhous, (2) medullary, or (3) gelatinous. It may originate from: (1) the epithelial cells of the ducts; (2) the parenchyma of the gland; or (3) very rarely, from the islands of Langerhans. Walters says that 20 per cent of the tumors of the pancreas are inflammatory.

In the thirty-four cases of primary carcinoma which came to autopsy, only the head of the pancreas was involved in twenty-three, which is almost 60 per cent. The body of the pancreas was involved in five, the tail in three, the entire gland in three.

Diagnosis and Symptomatology.—The text-books teach that epigastric pains and jaundice are among the cardinal symptoms of carcinoma of the pancreas. Osler states that the points of greatest importance in the diagnosis are intense and permanent jaundice with dilatation of the gallbladder, rapid emaciation and a tumor in the epigastric region. Rose and Carless state: "The condition is not necessarily painful in the early stages . . . as it develops it becomes more painful and the patient wastes away and loses appetite and energy. Jaundice gradually supervenes and becomes absolute, with an enlarged gallbladder."

Our observations run somewhat counter to these teachings. It is true that thrity-seven of our thirty-nine cases had epigastric pain, radiating to the back and varying from mild to severe colicky pains. In most cases, however, the pain was mild and did not require sedatives. There was a sensation of fullness and epigastric distress, especially after nourishment.

As for jaundice, it was by no means a constant finding. It was positively reported in only twenty-four of our thirty-nine cases. In four of the patients who did not show jaundice, autopsy revealed that there was no involvement of the common duct either by extension of malignant growth or by compression. In one case, an anatomical anomaly, the common duct passed completely over the head of the pancreas without penetrating it. Lake and Marshall state that developmental abnormalities of the pancreas are not uncommon. Obviously, if the development of carcinoma in the head of the pancreas fails to involve the common duct, jaundice will not occur.

The most common findings in carcinoma of the pancreas were weakness and loss of weight, suffered by all thirty-nine patients in our series. The average weight loss was twenty-eight pounds.

The average duration of symptoms was three months; longest, eight years, shortest, two weeks. Nausea and vomiting occurred in twenty-eight of the thirty-nine cases. In nineteen cases there was a palpable mass; in twenty-two, liver enlargement; in ten, gallstones. Urinalysis was negative in thirty cases, but seven patients had nephritis. There were only two cases of diabetes, lasting from three to five years. We feel that there is no relation between carcinoma of the pancreas and either diabetes or hyperinsulinism.

Ten of our patients exhibited the Bard-Pick syndrome, i.e., progressive jaundice with no remissions, distention of the gallbladder, absence of hepatic enlargement, subnormal temperature and rapid cachexia and emaciation. All cases showed a secondary anemia due to nutritional disturbance. Stool analysis in five cases showed an absence of bile and presence of occult blood. In one case, the presence of undigested food in the stool was owing to a fistula between the jejunum and the transverse colon.

Differential Diagnosis

Since the diagnosis of primary carcinoma of the pancreas is largely by exclusion, the differential diagnosis assumes considerable importance. This condition is most apt to be confused with stone in the common duct. However, we have a rather reliable test, the Watson test, for ruling out the stone in the common duct. With stone, a little bile always enters the intestinal tract; more, in fact, than when the symptom of jaundice is due to neoplasm in the biliary passages. The outflow of bile can be measured by urobilinogen estimation. In cases of jaundice due to stone in the common duct, Watson has reported, the amount of urobilinogen in the feces is in no instance less than 10 mgm. per day, and usually more. Hence, if the Watson test reveals more than 10 mgm. of urobilinogen, in a suspected case of carcinoma of the pancreas, we can, with some certainty, rule out the possibility of carcinoma. At Ancker Hospital, the Watson test has proved accurate in more than 90 per cent of twenty-eight cases of biliary obstruction.

Another diagnostic point in ruling out stone in the common duct is that the patients with stone generally suffer more acute pain.

Other conditions from which primary carcinoma of the pancreas must usually be differentiated are: (1) benign stricture of the common duct; (2) carcinoma of the gallbladder or bile duct; (3) carcinoma of the duodenum and ampulla of Vater; (4) chronic pancreatitis with sclerosis of the gland; (5) biliary cirrhosis; and (6) acute catarrhal jaundice.

The differentiating points are as follows:

In benign stricture of the common duct, we usually get a history of some operative procedure in this region and the symptoms are of longer duration.

Chronic pancreatitis, with sclerosis of the gland, is also generally of longer duration. It is more common in females, and may produce a fever instead of the subnormal temperature common with carcinoma of the pancreas. Acute catarrhal jaundice may also produce chills and fever. It usually occurs in younger people.

Biliary cirrhosis is commonly a more chronic ailment than primary carcinoma of the pancreas.

With carcinoma of the gallbladder or bile ducts, complete blocking of the bile flow usually occurs, and probably earlier. With carcinoma of the duodenum and ampulla of Vater, x-ray examination may be helpful. However, all the carcinomas in sites adjacent to the pancreas are exceedingly difficult to differentiate.

Some help may be had by applying Courvoisier's law when considering patients with jaundice: If the gallbladder is distended, carcinoma of the pancreas or common duct is the cause. If the gallbladder is contracted, it is due to stone in the common duct. Lewis states that Courvoisier's law is correct in about 80 per cent of the cases.

X-ray Examinations

Negative findings in the stomach and duodenum are exceedingly valuable in excluding these organs as sites of the cancer process. Of our thirty-nine cases, however, only seventeen were submitted to x-ray examination. In five cases there was an extrinsic stomach mass; in two, a cascade stomach; in one, a jejunal colic fistula; and in one, a widening of the duodenal ring due to an extrinsic mass.

Discussing the x-ray findings in carcinoma of the pancreas, W. H. Dixon states that carcinoma of the pancreas can often be diagnosed by observing the pressure of an extrinsic mass on the duodenum, pylorus or cardiac and of the stomach. Harrison states that carcinoma of the head of the pancreas causes stenosis or narrowing and displacement of the duodenum and an increase of the duodenal loop. Tumors of the pancreas have been visualized by means of pneumoperitoneum and lateral pictures.

Prognosis

The prognosis in primary carcinoma of the pancreas is exceedingly grave. However, it is not absolutely hopeless. We can report one patient, who underwent cholecystograstrostomy, who is alive and well four years after the operation.

Walters states that 15 per cent of 113 patients with tumor in the region of the head of the pancreas causing biliary obstruction were alive three years after operation. W. J. Mayo records the case of an old lady who lived six years after cholecystogastrostomy for biliary obstruction due to a mass at the head of the pancreas.

Most surgery for carcinoma of the pancreas, however, must be considered frankly palliative or exploratory. Moynihan said that all cases of obstructive jaundice are entitled to an exploratory laparotomy. Lewis has further pointed out that in all operations on the gallbladder and bile ducts, the pancreas should be palpated, for the reason that if there is any suspicion of carcinoma of the pancreas, the gallbladder should not be removed. Presence of the gallbladder is one of the most important palliative factors in the treatment of carcinoma of the pancreas. In Lewis's cases the average duration of life after operation was from six to eight months, but during this period the patients were free from their previously marked jaundice and pruritus.

With carcinoma of the pancreas, metastasis takes place early by direct extension to: (1) the tissues adjacent to the pancreas; (2) to the regional lymph nodes; and (3) through the blood stream.

Of the thirty-four cases in our series which came to autopsy, twenty showed metastases to the liver, eighteen to the regional lymph nodes, twelve to the peritoneum, one to the gallbladder, four to the adrenals, two to the stomach, one to the kidney, one to the spleen, five to the small intestine, and one to the thyroid.

Treatment

Though x-ray and radium are sometimes beneficial, surgical intervention is generally the best palliative means. Cholecystoduodenostomy and cholecystojejunostomy are the operations of choice. Lahey recommends cholecystojejunostomy.

In addition to cholecystogastrostomy, the other possible operations are cholecystoenterostomy, cholecystostomy, and radical excision. cases have been reported in which the pancreas was completely removed without intervention of diabetes. However, in these three cases recurrence and death occurred within six months. Cholecystostomy is inadvisable because of the loss of bile needed for emulsifying fats. This bile loss prompts a more rapid decline of the pa-With cholecystocolostomy, there is the danger of a rapidly ascending infection of the gallbladder and bile ducts.

The best incision for complete exploration of the pancreas is a transverse incision above the umbilicus, cutting both recti muscles. The gastrocolic omentum is divided, thus exposing the entire gland.

Sauve and Desigratins developed a technic for partial and total pancreatectomy. The operation consists of: (1) anastomosis of the gallbladder or common duct to the stomach; (2) gastroenterostomy; (3) resection of the head of the pancreas and duodenum; (4) implantation of the remainder of the pancreas into the jejunum.

Operations were performed on nineteen of the thirty-nine cases in our series as follows: exploratory laparotomy, 5; cholecystogastrostomy, 4; cholecystostomy, 3; cholecystectomy, 1; cholecystoduodenostomy, 3; choledochotomy, 1; cholecystocolostomy, 1; posterior gastroenterostomy for duodenal obstruction due to large pancreatic mass, 1.

Summary and Conclusions

A series of thirty-nine cases of primary carcinoma of the pancreas, proved by autopsy or operation, have been reviewed.

Primary carcinoma of the pancreas is most common in the fifth and sixth decades; the average age of incidence in this series was sixtyone years. It is more common in males than in females, the ratio in this series being 2.5 to 1. The head of the pancreas is most commonly involved; only the head was involved in almost 60 per cent of the cases in this series.

The diagnosis of primary carcinoma of the pancreas is largely by exclusion. Most commonly it must be differentiated from stone in the common duct. For this purpose, the Watson test is very useful.

Negative x-ray findings in the stomach and duodenum are also of great value as diagnostic aids.

Jaundice should not be considered a cardinal symptom. At least four and possibly seven cases in this series had no jaundice and no involvement of the common duct.

The prognosis is grave but by no means hope-Surgical intervention is the best palliative means. Cholecystoduodenostomy and cholecystojejunostomy are the operations of choice.

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POSTURAL HYPOTENSION-BROWNE AND HORTON

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POSTURAL HYPOTENSION*

Hourly and Daily Blood Pressure Variations

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A PHYSICAL examination is never complete until the blood pressure has been recorded with the patient in the recumbent as well as in the erect posture. Failure to carry out this simple procedure results in many patients going from physician to physician looking for help because of dizzy spells and weakness, and seldom finding the help. Hourly and daily records of blood pressure in such a case tell a graphic story, but thus far we have not seen such a record in print. The following report of a case, with accompanying comment and illustration, is presented to emphasize the importance of such a case in everyday practice and to show graphically the variations in blood pressure.

Report of Case

A white man, aged seventy years, a retired school teacher and farmer, entered The Mayo Clinic, September 15, 1938, complaining of spells of weakness and dizziness. The family history was essentially negative. The man always had been asthenic, although his general health had been exceptionally good. He had had influenza in 1918 and appendectomy had been performed for recurrent appendicitis in 1914.

He first had noticed the dizziness and weakness five years before we saw him. These symptoms had appeared following an attack of what had been termed "mucous colitis" which had been characterized only by an excess of mucus in the stools. The patient noted the weakness especially in the morning, after rising, and the dizziness on standing after he had been recumbent or sitting for some time. He experienced actual syncope at times. The attacks had come at occasional intervals until the year before his coming to the clinic. By the time of his examination they were occurring many times a day. Frequently, while walking, he would have to bend over to rid himself of dizziness or he would be obliged to sit or recline. These measures invariably brought relief. He was more uncomfortable and suffered more attacks during the cold seasons than at other times.

The man complained, in addition, of nocturia, and stated that he excreted a larger amount of urine during the night than during the day. Since December, 1937, he had been troubled by a postnasal drip and

occasionally he easily expectorated blood-tinged mucus. He had no chronic cough or other respiratory symptoms. All his life he had been constipated, but aside from this and the attack of mucous colitis there were no other gastro-intestinal symptoms. He never had noticed any abnormalities of sweating; he complained of mild paresthesia in the fingers and toes.

On physical examination the patient appeared at least ten years younger than his actual age. There was no graying of the hair and no tendency to baldness. The skin was soft and senile changes were few. The tonsils were chronically infected. Nothing could be found in the upper respiratory passages to account for the blood-tinged mucus. There were a minimal amount of arteriosclerosis and a few vitreous opacities in the ocular fundi. Periapical dental infection was graded 2 and pyorrhea alveolaris was graded 1, on a scale in which 1 indicates minimal and 4 extreme difficulty. The carotid sinus reflex was not hyperactive. Examination of the thorax revealed only senile emphysema and a soft, apical, systolic murmur. The abdomen appeared to be normal with the exception that muscular tone was poor. The prostate gland was enlarged (grade 1) and prostatitis was graded 1. There was no residual urine. There were moderate sclerosis and tortuosity of the peripheral arteries. Neurologic examination revealed only slight impairment of vibratory sensation.

With the cooperation of the patient some special observations were made.

Observation 1.—The patient was hospitalized and hourly readings of blood pressure were taken while he was recumbent and erect (Figs. 1 and 2). The mean pressures with the patient supine were 140 mm. of mercury systolic and 90 diastolic and with the patient standing 65 systolic and 35 diastolic. The maximal variation in pulse rate was represented by the difference between a rate of 66 beats per minute when the patient was recumbent and 74 beats per minute when he was erect. In figures 1 and 2 it is seen that the blood pressure, while the patient was standing, followed a relatively level curve, without pronounced variations, but that while he was recumbent it exhibited definite fluctuations and at times was actually of hypertensive type.

Observation 2.—The patient was placed on a tilting table at an angle of 45 degrees, head uppermost, and was given, at intervals of three minutes, intravenous injections of 12.5 mg. of ephedrine sulfate totaling 100 mg. At the beginning of the observation his blood pressure was 70 systolic and 60 diastolic and his pulse rate was 60. At the end, his blood pressure was 84 systolic and 60 diastolic and his pulse rate was 100; he could stand and walk without dizziness or weakness.

^{*}From The Mayo Foundation (Browne) and the Division of Medicine (Horton), The Mayo Clinic, Rochester, Minnesota.

POSTURAL HYPOTENSION-BROWNE AND HORTON

Observation 3.—The man was placed in a baker to determine in what areas sweating would appear.¹¹ Sweat was found everywhere on the body except for a small area on the inner aspect of each leg.

and paredrine were administered. Ephedrine sulfate and paredrine hydrobromide seemed fairly satisfactory in overcoming the weakness and syncope but produced little change in the blood pressure. The aim of

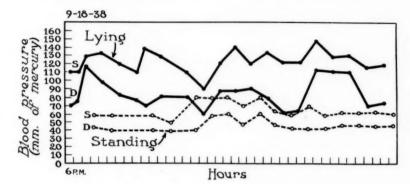


Fig. 1. Hourly readings of blood pressure over a period of approximately forty consecutive hours. Solid lines indicate blood pressure with patient recumbent and dotted lines, with patient standing. S indicates systolic and D, diastolic

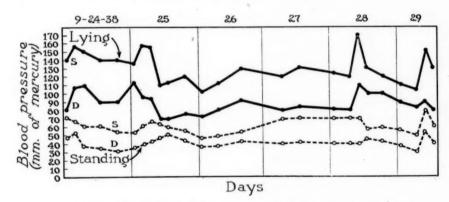


Fig. 2. Observations on blood pressure plotted as in Figure 1, but at less frequent intervals, over a period of approximately six days.

Observation 4.—For several days all urine excreted during the day (7 a.m. to 7 p.m.) was collected in one container and all that excreted during the night (7 p.m. to 7 a.m.) in another. The average diurnal output was 500 c.c. and the average nocturnal output 900 c.c.

Observation 5.—A tight abdominal binder was applied whenever the patient walked; this reduced the tendency toward syncope. When the patient was standing and the binder was removed he experienced marked giddiness and weakness.

Laboratory Examinations.—Results of most of the laboratory tests were negative. In terms of milligrams per 100 c.c., results of blood chemical examinations were as follows: urea nitrogen, 42 mg.; serum sulfates, 4.1; fasting blood sugar, 100; chlorides, 585; sodium, 308; potassium, 17.6; phosphorus, 2.4; calcium, 10. The basal metabolic rate was +6. Roentgenograms of the thorax were negative.

Treatment.—Various schedules of medication were tried, in which preparations of ephedrine, benzedrine

treatment in this type of case is to eliminate the disagreeable subjective sensations rather than to raise the blood pressure to normal.

For about two weeks (Table I) the daily schedule included administration of both ephedrine sulfate and paredrine hydrobromide and the patient noted improvement of his condition. Later (Table I), administration of paredrine hydrobromide was discontinued and ephedrine sulfate only was used. This later schedule was somewhat more satisfactory than the one that was followed during the first two weeks.

On dismissal, October 12, 1938, the patient's blood pressures, when he was sitting, were 100 systolic and 70 diastolic; when he was standing, 76 systolic and 50 diastolic and when he was recumbent, 142 systolic and 90 diastolic. Subjectively his condition was greatly improved.

Comment

Postural, or orthostatic, hypotension was first described as a clinical entity in 1925 by Brad-

. . . .

TABLE I.-DAILY MEDICATION

Period ,	Tin of o		Dose, mg.	Drug		
	6	25				
		7	25	Ephedrine sulfate		
A.M.			25			
	A.M.	8	40			
		9:30	20	Paredrine hydrobromic		
First		11	20			
two weeks Noon P.M.	Noon		25	Ephedrine sulfate		
		12:30	20			
		2	20	Paredrine hydrobromide		
	P.M.	3	25	Ephedrine sulfate		
		3:30	20	Paredrine hydrobromide		
	A.M.	6	25			
Later		7	25			
		8	25	Ephedrine sulfate		
	Noon		25			
	P.M.	3	25			

bury and Eggleston when they reported three cases. Prior to that time, for many years it had been known that sometimes blood pressure changed markedly when posture changed. As early as 1905, Crampton showed that the pulse and blood pressure of man varied with change in posture.4,5 Mortensen, in 1923, attributed the change in blood pressure to myocardial response rather than to vasomotor instability. Ghrist and Brown in 1928 first successfully used ephedrine in treating these patients. Korns and Randall employed benzedrine and the related compound, paredrine. They noted an increased pressor effect of the latter drug compared with the former and a decreased stimulating action on the central nervous system. From time to time additional cases have been reported1, 2, 6, 12 in most of which the following phenomena have been exhibited: (1) a pronounced drop in systolic and diastolic blood pressure, and syncopal attacks, on change from the recumbent to the upright position; (2) no increase in pulse rate with this drop in blood pressure: (3) anhidrosis or decreased sweating and inability to stand hot weather; (4) excretion of more urine at night than during the day; (5) a false appearance of youth; (6) a slightly low basal metabolic rate; (7) signs of slight changes in the nervous system; (8) concentration of blood urea at the upper limit of normal.

Postural hypotension is not a disease but is an expression of inadequate control of the arterial system which may be associated with numerous diseases. As to its underlying cause, there is still dispute. In their original article Bradbury and Eggleston attributed the condition to deficiency or paralysis of the myoneural junctions. Ghrist and Brown brought forth the hypothesis that the splanchnic vessels lacked resistance to shifts in blood mass and that vagal regulation of the cardiac rate with alterations in blood pressure was diminished or absent. MacWilliam expressed the belief that the difficulty lay in the lower extremities themselves, for he said there was little change in splanchnic blood mass with the sitting and standing posture; the only factor which changed was the position of the limbs. Crampton declared that, in the sitting posture the splanchnic circulation was maintained within limits by the support afforded by the limbs being flexed on the trunk. About as many different hypotheses have been propounded as the number of cases reported. The conclusion is that the vasomotor system plays the predominant rôle in the decrease of blood pressure in the standing position.

In the case reported here not all of the characteristics mentioned in a preceding paragraph were found. There were, of course, the marked fall in blood pressure, the syncopal attacks and the slow, unchanging pulse rate. Intravenous injection of ephedrine, however, caused acceleration of the pulse as has been pointed out (observation 2) and this showed that the normal function of the cardiac accelerator mechanism with change in blood pressure had not vanished. Our patient did not exhibit abnormal sweating and that he did not was an index of normal sympathetic control. Instead of inability to stand hot weather he suffered most during cold seasons. One of his most bothersome symptoms was excessive nocturnal urination. He possessed the false appearance of youth but not the characteristically low basal metabolic rate. The diminished vibratory sensation may have been a natural senile change and it was the only sign we could place in the category of slight changes in the nervous system. The concentration of blood urea was in the higher limits of normal as would be expected. It is interesting to compare the fluctuating curve this patient's blood pressure presented when he was recumbent with the relatively flat curve obtained when he was erect.

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THE VALUE OF PERSISTENCE IN THE TREATMENT OF THROMBO-ANGIITIS OBLITERANS: REPORT OF TWO ILLUSTRATIVE CASES*

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THE pessimistic attitude relative to the outlook for patients with thrombo-angiitis obliterans has gradually changed to a more optimistic one. That much can be accomplished for such patients is more apparent as experience in medical, neurosurgical and conservative orthopedic treatment of this condition accumulates. This change in attitude has resulted from development of logical methods of treatment and the gradual recognition that persistence is most important. In considering treatment of patients with thrombo-angiitis obliterans with gangrenous lesions, ulcers or pain while the limb is at rest, both patient and physician must be thoroughly imbued with the idea that treatment over a comparatively long period of time is essential if the best results are to be accomplished. It is sometimes well to point out to a patient that many diseases, such as tuberculosis, for example, require treatment for months and that thromboangiitis may be as demanding of time. When this situation is discussed with a patient with thrombo-angiitis obliterans soon after treatment is begun, he is easily reconciled to slow progress, a state of mind which in itself seems to hasten improvement. It is the purpose of this report to stress the importance of persistent treatment.

Report of Cases

Case 1.-A twenty-seven year old salesman of Scotch-English descent entered The Mayo Clinic on February 1, 1937, because of painful ulcerations on the first, second and third left toes, which had been present for one month.

There was no family history of vascular disease except that his father had had hypertension. Six years before admission the patient had frozen his feet but recovery had occurred promptly and there had been no residual symptoms. He had begun to smoke cigarettes at the age of seventeen and he had consumed between twenty and forty of them a day since that time. His past history was otherwise irrelevant.

Two and a half years before admission the patient noticed several red tender lumps along the veins of the lower part of both legs, which disappeared in about a month.

Two and a half months before admission, while the atient was recovering from an attack of "influenza," patient was recovering from an attack of there was a sudden onset at rest of marked numbness, coldness, pallor and pain involving the left foot. These symptoms were so severe that he was taken to a hospital, where he was treated by the application of hot and cold packs, intravenous injection of a solution of The condition of his foot gradually improved so that one month after the onset of the symptoms he was once more walking about. At this time he experienced once more walking about. At this time he experienced a similar episode of sudden onset of pain and numbness in his left foot, the distal half of which became cold and white. A few days later a Leriche operation (periarterial sympathectomy) was performed on his left femoral artery. One month before admission, the left first, second and third toes became darkly distalled and ulceration of them occurred.

colored and ulceration of them occurred.

During the one and a half months prior to admission the gangrenous toes were affected with pain, which was severe enough to prevent sleep and which was partially relieved by allowing the left foot to hang over the edge of the bed. The patient's appetite also was diminished so that he lost 20 pounds (9 kg.) in weight.

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TABLE I. RESPONSE OF TEMPERATURE OF SKIN OF TOES AND FINGER OF A PATIENT SUFFERING FROM THROMBO-ANGIITIS OBLITERANS TO INTRAVENOUS INJECTION OF TYPHOID VACCINE

			Temperature*		
			Finger		
	Mouth	Right first	Right fourth	Left fourth	Right third
Before injection	99.5 (37.5)	85.8 (29.9)	85.5 (29.7)	83.7 (28.7)	87.1 (30.6)
After injection	101.3 (38.5)	97.3 (36.3)	96.6 (35.9)	88.9 (31.6)	99.1 (37.3)

^{*}In degrees Fahrenheit; figures in parentheses are in degrees Centigrade.

On examination at The Mayo Clinic the patient was found to weigh 140 pounds (64 kg.). The oral temperature was 97.6° F. (36.4° C.), the pulse rate 112 beats per minute and the blood pressure was 115 mm. of mercury systolic and 90 diastolic. The results of the general examination, exclusive of the extremities, were negative except for tachycardia and moderately enlarged tonsils.

The muscles of the entire left leg were somewhat atrophied, weak and flabby. The entire left second toe was black, shrunken and crusted and there were similar changes on the dorsum, tip and lateral surface of the great toe and on the dorsum at the base of the third toe. The distal half of the nail of the left first toe had been removed (Fig. 1). Pulsations were normal in radial, ulnar, femoral, popliteal and posterior tibial arteries bilaterally. Pulsations could not be felt in the dorsalis pedis arteries bilaterally. There were no unsual changes in color of the skin of the hands and right foot as a result of elevation or dependency. Color changes dependent on posture of the left foot could not be determined because of staining of the skin with mercurochrome. The response of the temperature of the skin of the toes to fever induced artificially by the intravenous injection of typhoid vaccine is shown in Table I. This study indicated marked impairment of circulation to the left fourth toe. Studies of the temperature of the skin of the left first, second and third toes were not made because attachment of the thermocouple junctions to them caused pain.

Laboratory studies: The results of routine laboratory studies, including determination of hemoglobin, enumeration of erythrocytes and leukocytes in the blood, a serologic test for syphilis and differential leukocyte count, were essentially normal. On repeated urinalyses traces of albumin were found and in several samples there was slight reduction of Benedict's solution. The blood sugar was 72 mg. per 100 c.c. of blood. Sedimentation of the blood was 17 mm. in an hour. Roentgenographic examination of the lungs and left foot gave negative results.

A diagnosis of thrombo-angiitis obliterans with two episodes of sudden arterial occlusion was made.

The patient was treated in the hospital. Smoking was prohibited. Most of the time the patient rested in bed and weight-bearing on the left foot was carefully avoided. Radiant heat was applied to the feet by means of carbon filament bulbs in a cradle. The temperature of the air about the feet was maintained at about 90° F. (32.2° C.). The left foot was soaked several times daily in a warmed solution of boric acid or chloramine. Intermittent suction and pressure could not be employed because this procedure increased the pain. On the day following admission to the hospital, fever was induced artificially by injecting intravenously a vaccine containing killed typhoid and paratyphoid

A and B organisms. Pain was accentuated as a result of this procedure but it was considerably diminished the following day. Subsequent intravenous injections of vaccine were given at intervals of two to eight days and the patient received twenty-nine of them during the five months he was in the hospital. During this same period he received passive vascular exercises on the Sanders bed for 308 hours. Anodynes and sedatives were administered to relieve pain and induce sleep. During a period of five months he received the following amounts of drugs; morphine sulfate 9.1 grains (0.59 gm.), dilaudid 2.2 grains (0.14 gm.), codeine sulfate 233 grains (15.1 gm.), acetyl-salicylic acid 1.580 grains (102.4 gm.), phenobarbital 139 grains (9.0 gm.), sodium amytal 39 grains (2.5 gm.) and pentobarbital sodium 71.5 grains (4.63 gm).

On this regime progress was slow and indeed for a considerable time was doubtful. The patient continued to have a great deal of pain so that fairly large amounts of opiates were required—especially during fever induced by intravenously injected vaccine. It was thought wise to defer any operative removal of the gangrenous areas until such a time as complete demarcation had occurred and the blood supply to the surrounding tissue had been developed as much as possible, or even to wait until spontaneous amputation should occur. Accordingly some other method for the relief of pain had to be employed. Three weeks after admission, under infiltration anesthesia the left superficial and deep peroneal nerves were resected in the lower leg and the left posterior tibial nerve was crushed. After this operation there was reduction of pain in the left foot of about 50 per cent, although partial sensation remained in the distribution of the posterior tibial nerve on the plantar surface of the foot.

Two and a half months after admission a second operation was performed. Under pentothal sodium anesthesia the second left toe was amputated at the line of demarcation, that is, through the metatarsophalangeal joint, and the first phalanx of the great toe, which was projecting into the wound, was completely removed, as was the nail of this toe, under which considerable pus had accumulated.

Subsequent healing was slow but progressive until the time of the patient's discharge from the hospital three and a half months after admission, at which time small areas of granulation tissue were present at the sites of removal of the second toe and of the first toenail and at the area in which the phalanx of the first toe had been removed (Fig. 2). The patient returned to the hospital in a week, however, because of ulceration in these areas brought on by walking and weight-bearing. A month later (five months after the first hospital admission) he was again discharged, at which time healing was complete.

THROMBO-ANGIITIS OBLITERANS-WOLLAEGER, ET AL

In a letter received from the patient four months after dismissal he stated that he was enjoying good health and leading an active life with no recurrence of ulceration or return of pain. He had gained 45 pounds (20 kg.) in weight. Thirteen months after dismissal the patient stated he was entirely well. months later similar pains began in the calves of his legs, allowing him to walk only a block or so before he had to stop and rest.

During the year previous to admission the patient noticed spots of cyanosis on the fingers of the left hand (most marked on the third and fifth fingers)



Fig. 1. Thrombo-angiitis obliterans. Appearance of foot at time of admission Same extremity as pictured in Figure of patient to hospital.

Fig. 3. Thrombo-angiitis obliterans, with gangrenous ulcer on plantar surface of foot.

There can be no valid criticism of the diagnosis of thrombo-angiitis obliterans in this case. The patient had had superficial phlebitis, which, in conjunction with occlusive arterial disease, is almost pathognomonic of thrombo-angiitis obliterans. Sudden arterial occlusive disease occurs commonly in this condition. In a study of 225 cases, Kvale and one of us (Allen) found that sudden occlusion occurred in the course of well established thrombo-angiitis obliterans in fifteen cases, or 7 per cent, and as an original event in eleven cases, or 5 per cent, of the cases. This case which we have presented seems clearly exemplary of the latter situation. The fortunate outcome can be attributed to no single method of treatment, for many methods persistently carried out seem clearly responsible.

Case 2.—The patient, a thirty-five-year-old oil field worker of Irish descent, entered . The Mayo Clinic on January 30, 1937, because of a painful ulcer on the medial aspect of the ball of the left foot, which had been present for one month.

Family and past histories were irrelevant except that the patient had smoked one package of cigarettes a day for many years.

In the fall of 1934, about two years before admission, the patient developed a red, painful nodule on the radial aspect of the left lower arm, which seemed to migrate around the arm and also up its length to the elbow. Redness and pain were intermittent and there was no fever. In three or four months the nodule disappeared entirely.

One year before admission the patient began to

have claudicatory pain in the arches of the feet. Six

and on both feet. These patches were noticeable only on exposure to cold and disappeared with the application of warmth. Pallor of the fingers and toes was present when these parts were elevated, but there was no pain while they were at rest. On two occasions the patient had developed small ulcers along the sides of the nails on the third and fifth fingers, each requiring several weeks to heal.

TABLE II. GRADE OF PULSATION IN EXTREMITAL ARTERIES OF A PATIENT SUFFERING FROM THROMBO-ANGIITIS OBLITERANS

	Pulsations			
Artery	Right	Left		
Radial	. 4	0		
Ulnar	4	0*		
Femoral	3 to 4	2 to 3		
Popliteal	2	0		
Posterior tibial	0	0		
Dorsalis pedis	0	0		

Grade 0-No pulsation. Grade 4-Normal pulsation.

*Though pulsations were absent in the left ulnar artery, there was present a fairly good sized collateral artery on the dorsum of the ulnar side of the lower arm in which pulsations were graded 2.

Two months before admission the patient noticed a small blister on the medial aspect of the ball of the left foot. This increased in size and was accompanied by so much pain and swelling of the foot that he was forced to take to his bed a month later. The blister was opened and trimmed by his physician, but in spite of this and other treatment, including intermittent suction and pressure, injections of tissue extract and

THROMBO-ANGIITIS OBLITERANS-WOLLAEGER, ET AL

TABLE III. RESPONSE OF TEMPERATURE OF SKIN OF TOES AND FINGER OF A PATIENT SUFFERING FROM THROMBO-ANGIITIS OBLITERANS TO INTRAVENOUS INTECTION OF TYPHOID VACCINE

	Temperature*					
	Mouth	Toes				Finger
		Right first	Right fourth	Left first	Left fourth	Left fifth
Before injection	99.5 (37.5)	80.2 (26.8)	81.0 (27.2)	83.5 (28.6)	81.9 (27.7)	83.3 (28.5)
After injection	102.9 (39.4)	85.5 (29.7)	84.2 (29.0)	86.9 (30.5)	84.9 (29.4)	97.5 (36.4)

^{*}In degrees Fahrenheit; figures in parentheses are in degrees Centigrade.

insulin and two injections of typhoid vaccine, the ulcer failed to heal. The patient continued to smoke most of the time during his illness.

On examination at the time of admission the patient was well nourished. The oral temperature was 98.2° F. (36.8° C.). The pulse rate was 80 beats per minute and the blood pressure was 130 mm. of mercury systolic and 80 diastolic. The results of a general physical examination were essentially negative except for the extremities. Over the medial aspect of the first metaextremities. Over the media aspect of the first fleta-tarsophalangeal joint of the left foot was a traumatic, infected, gangrenous ulcer, 3 cm. in diameter and 1.5 cm. deep (Fig. 3). The ulcer and the surrounding infected area were intensely tender and the left foot was swollen, grade 2, on a basis of 1 to 4. There was considerable pain in the region of the ulcer while the foot was at rest, which prevented the patient from keeping his left leg in bed and caused him to allow it to hang over the edge of the bed most of the

Circulation in both feet as well as in the left hand was appreciably impaired as shown by abnormal pallor in the elevated position and abnormal rubor in the dependent position. Pulsations in many of the main arteries of the extremities were impaired as demonstrated in Table III strated in Table II.

The response of the temperature of the skin of the toes to fever artificially induced by the intravenous injection of typhoid vaccine is shown in Table III.

This study indicated marked impairment of circulation to the toes of both feet. Collateral circulation to

the left hand was adequate.

Routine laboratory studies, including numerous urinalyses, determination of the blood hemoglobin and enumeration of the erythrocytes and leukocytes in the blood, gave normal results. Quantitative determinations of blood lipoids resulted as follows: Total fats, 726 mg. per 100 c.c.; cholesterol, 252 mg. per 100 c.c., and fatty acids, 474 mg. per 100 c.c. Roentgenographic examination of the lungs and of the left foot gave negative results.

A diagnosis of thrombo-angiitis obliterans was made. The patient was treated in the hospital, where he rested in bed most of the time, avoiding all weight-bearing on the ulcerated foot. His feet were protected by a wooden cradle in which radiant heat was applied to them by means of carbon filament bulbs, which maintained the air about his feet at a temperature of about 90° F. (32.2° C.). The left foot was soaked several times a day in a warmed solution of boric acid, chloramine or potassium permanganate. Zinc peroxide chloramine or potassium permanganate. Zinc peroxide paste was applied to the healing ulcer daily for several weeks during the midportion of his stay in the hospital. On the day following admission to the hospital, fever was induced artificially by the intravenous injec-

tion of a vaccine containing typhoid and paratyphoid A and B organisms. After an initial accentuation of pain this procedure resulted in a marked relief from pain on the following day. Fifteen subsequent intravenous injections of vaccine were made at two to eight day intervals during the two months the patient was in the hospital. During this period of time he received, daily, passive vascular exercises on the Sanders bed for a total of forty-four hours. Intermittent suction and pressure also were applied to the left leg daily for a total of eighty-two hours. Smoking was strictly prohibited throughout treatment. Moderate amounts of anodynes and sedatives were administered for the relief of pain and the induction of sleep.

From the beginning the patient's progress was slow because of the great size and depth of the ulcer on his foot, which gradually became filled with granulation tissue and finally was covered by epithelium. Even at the time of his dismissal, two months after admission. there was a fairly deep depression at the site of the former ulcer. In a letter received three months after dismissal the patient stated that this depression was almost entirely filled in and that he had been working for two months, though he could not stand on his feet for any great length of time.

A second letter, eight months after dismissal, stated that the patient was on his feet eight hours a day without pain except from walking, which brought on claudication at three blocks. There was still slight tenderness to pressure over the site of the old ulcer. The color of his feet was said to be better.*

Two important lessons can be gained from a study of this case report. Minor surgical procedures are frequently ill advised, for they may cause gangrene or gangrenous ulcers in many cases. Barker's study showed that such undesired results had followed injudicious surgical procedures in a third of the cases of thromboangiitis obliterans with gangrenous lesions. The prospect for recovery when gangrene or gangrenous ulcers are present is substantially less than when they are absent. Injudicious surgical procedures consist chiefly in removal of the toenails and corns or of calluses, and in incision for

^{*}Since this paper was written the patient writes eighteen months after dismissal that the condition of his feet is excelent. There are no ulcers of the feet or pain except intermittent claudication when walking a considerable distance. The nails are growing.

suspected abscess. We recommend strongly that no local surgical procedures be performed in any case until blood supply has been proved adequate or until the surgeon has carefully considered the ill effects which may follow such procedures when blood supply is diminished. The second lesson is that lesions which appear at first glance to be severe enough to justify amputation may disappear as a result of intensive medical treatment.

Comment

The two cases reported emphasize that gangrenous lesions in thrombo-angiitis obliterans do not always necessitate amputation. On the contrary, intensive medical treatment may cause healing and restoration of an extremity to useful function. An outline of the treatment of thrombo-angiitis obliterans is beyond the scope of this paper. It has been presented adequately elsewhere. Treatment is seldom uniform in type but usually is an individual affair, varying greatly from case to case, and may necessitate close cooperation of internist, orthopedist and neurosurgeon. In this presentation we have emphasized the importance of persistence of medical treatment in many cases. It is impossible to state precisely when medical treatment should be abandoned for amputation, as criteria for amputation vary greatly from case to case. In general, severe pain which cannot be controlled adequately by medical or neurosurgical means, or gangrenous lesions which do not respond to intensive medical treatment over a considerable period of time, require amputation.

The physician dealing with many patients with thrombo-angiitis obliterans sees two types of cases for which decision relative to treatment is not difficult. There are cases for which prompt amputation is advisable and cases for which amputation need not be considered. For the latter cases medical treatment and perhaps sympathectomy are clearly indicated. In a third group of cases the question arises at once whether or not amputation is advisable. In such circumstances it is best to treat patients conservatively for a minimum period of several weeks. If unsatisfactory progress results from this regime, then amputation may be considered. If the treatment causes improvement, it may be continued.

The physician may object at once that thrombo-angiitis obliterans is a chronic disease and that healing of lesions such as those described does not necessarily mean cessation of the disease. He may point out that amputation may be advisable eventually and that there is little reason for deferring the time when such treatment is necessary. Such an attitude prompts decision to amputate limbs as soon as the diagnosis of thrombo-angiitis obliterans is made. Fortunately, the poor logic of this is apparent, for many patients with thrombo-angiitis obliterans have two fairly normally functioning legs all their lives; many others keep one normally functioning leg.

Other physicians may point out that the cost of conservative treatment over a long period of time may be great. It is almost always good policy to discuss the situation frankly with the patient. If he desires a trial of conservative treatment, it seems to us he should have it. If such treatment impresses him as too costly and too uncertain of producing good results, amputation may be advisable. Too many factors influence a patient to allow advising him dogmatically. The physician should not allow a poorly founded attitude of pessimism on his part to influence the patient to accept amputation when it may not be necessary. We agree that some patients are treated conservatively too long but in many instances "too poor" treatment is mistaken for "too long" treatment. We cannot agree that the cost of an intensive but conservative program for a few weeks is too great if there is a chance of producing healing of gangrenous lesions and quiescence of the disease. We believe that the incidence of amputation for thrombo-angiitis obliterans can be reduced sharply. Earlier recognition, better conservative treatment and less haste to amputate in many cases are very desirable. Much can be accomplished in producing results which amply justify conservatism. We have presented two illustrative cases to support this contention.

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PICROTOXIN TREATMENT OF BARBITURATE INTOXICATION

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THE recent report of the Council on Pharmacy and Chemistry of the American Medical Association gives the present status of the use of picrotoxin in the treatment of poisoning by the barbiturates. The following case is reported because it is believed to have demonstrated to the authors the efficacy of the use of this drug and also because it illustrates a clinical example of the picrotoxin-barbiturate antagonism or the antidotal action of picrotoxin in barbiturate intoxication.

Picrotoxin is a bitter neutral principle prepared from Anamirta paniculata (Cocculus indicus). It stimulates the motor and inhibitory centers in the medulla, especially the vagus and respiratory centers. Picrotoxin (C₁₀H₁₄O₁₀) may be broken up into Picrotoxinin (C15H16O0) and Picrotin (C15H16O7); is soluble in eight parts of alcohol or 240 parts of water. Koppanyi et al6 found that it had a distinct awakening or cortical effect aside from its medullary stimulating action. The studies of Maloney, Fitch and Tatum4 in 1931 called attention to the antidotal action of picrotoxin in the treatment of barbiturate poisoning. Subsequent reports by these same authors⁵ established a clinical basis for the use of this drug and the report of four cases by Kohn, Platt and Saltman3 and an additional report by Bleckwenn and Masten² of six cases have added further proof of the clinical value of picrotoxin as an antidotal or antagonistic agent against the toxic effects of overdoses of the barbitals.

Case Report

A white woman, aged twenty-four, weighing 108 pounds, sixty-four inches in height, was admitted to the hospital on November 17, 1938, in an unconscious and comatose condition. Barbital intoxication was suspected and it was estimated that twelve hours had elapsed since the taking of sixty grains of phenobarbital (luminal) obtained from a local drug store.

The patient's color was good, respirations slow and shallow, and she was comatose. Her temperature was 99.2 F., pulse rate 74, respiratory rate 16, and the blood pressure 92 systolic, 64 diastolic. The pupils were miotic (3 mm.), equal, regular, and did not react to light. The eyes were fixed in the midline, the corneal and conjunctival reflexes weak and sluggish. Her mucous membranes were moist and slightly cyanotic. The neck muscles were flaccid and all deep tendon reflexes were greatly reduced. The Babinski reflex was bilaterally negative. The admission diagnosis was: Overdose of hypnotic drug, probably barbital.

Course.—Gastric lavage was performed at once and only a small amount of fluid was found in the stomach. The bladder was emptied by catheterization and the urine found normal. The hemoglobin was 86 per cent; R.B.C. 4,620,000; W.B.C. 18,400. Five hundred c.c. of 10 per cent glucose in normal saline was given intravenously. The patient's temperature rose to 104.6

F.; pulse to 120; respirations to 32 per minute. Caffeine sodium benzoate (gr. 7½) was given subcutaneously and repeated with little apparent effect. The intravenous administration of picrotoxin was begun nine hours after admission, beginning with 1 mg. and repeating in increasing doses every twenty minutes until 6 mg. were given. Two to four hours were then allowed to elapse between doses, which were then increased to 9 mg. and then to 12 mg., depending on the blood pressure reading and the character of the pulse and respirations. During the first twenty-four hours of picrotoxin administration the patient received 111 mg. of picrotoxin intravenously and in the next twelve hours 36 mg. of picrotoxin by the same route, thus receiving a total of 147 mg. of picrotoxin in the thirty-six hour period. At the end of this time she developed a return of the deep reflexes, her temperature and pulse declined, and respirations became stabilized and deeper. Cyanosis disappeared and did not return. Feeding by duodenal tube was carried on for twelve hours, when oral feeding was possible. Strychnine gr. 1/20 was given subcutaneously three times daily after return of consciousness for its tonic and supportive effect. Recovery was considered well under way forty-eight hours after the institution of the picrotoxin administration. Strength and function of the upper extremities, however, returned late and weakness of these members persisted for seventy-two hours. The patient was released from the hospital on the fifth day after admission and was oriented, mentally clear, her temperature 99.4 F., pulse rate 90 per minute, respiratory rate 22 per minute, blood pressure 120 systolic and 66 diastolic.

The patient admitted having taken forty tablets of 1.5 gr. phenobarbital (luminal) or a total of sixty grains. It was observed during the administration of the picrotoxin that giving the drug intravenously at the rate of 1 mg. per minute did not produce any apparent untoward effects and that when the dosage reached to 12 mg. certain signs of clinical improvement became apparent. This was evidenced by: (1) a rise of systolic and diastolic blood pressure; (2) a perceptible slowing of the pulse rate; (3) a deepening and slowing of the respirations; (4) a decrease of the cyanosis; and (5) a return of voluntary muscular movements. The return of consciousness occurred after the administration of a total of 147 mg. of picrotoxin in divided doses over a period of thirty-six hours.

Comment.—From the publications of Tatum et al^{4,5} it was estimated that 1 mg. of picrotoxin is antidotal for 30 to 40 mg. of a barbital derivative. Upon the basis that 1 mg. of picrotoxin is antidotal for 30 mg. of phenobarbital, we have calculated that the 147 mg. of picrotoxin given this patient was sufficient to counteract 4,410 mg. of phenobarbital.

As this patient took 3,900 mg. (60 grains) of phenobarbital she received sufficient picrotoxin according to this method of calculation.

(Continued on Page 332)

HISTORY OF MEDICINE IN RAMSEY COUNTY

BY J. M. ARMSTRONG, M.D.

(Continued from April issue)

1869

Though not pertinent to a history of medicine in Saint Paul, it may be noted that the Minnesota State Eclectic Medical Society was incorporated on May 26. E. M. Morehouse, M.D., was chosen President; Dr. S. M. Morrison, vice president; N. L. Culver, recording secretary; Dr. L. F. Case, corresponding secretary; and Dr. Charles Lee, treasurer. The censors were A. F. Elliott, M.D., J. W. B. Wellcomb, M.D., E. M. Morehouse, M.D. Some were doctors, some M.D.s, and some apparently were neither. It would be interesting to secure further knowledge of this organization. On November 14, the Southern Minnesota Eclectic Medical Society was incorporated. It was a larger organization than the former, and most of the men mentioned above belonged to it.

The usual number of itinerant physicians were in evidence this year. The city was growing, and apparently the field appeared promising to them. Several additional reputable physicians settled in Saint Paul, the first being Dr. T. B. De Grosbois. He formed a partnership with Dr. Guernon, but that association lasted only a few months, and he remained but a short time. He was a graduate of McGill University. Next came Dr. Charles H. Boardman, son of the Rev. Henry A. Boardman, pastor of one of the Presbyterian churches. Dr. Boardman became a prominent member of the Ramsey County Society in later years. Dr. E. Lemire, who stated that he was a graduate of Victoria University at Montreal, late editor of the Gazette Medicale and late secretary of the Medico-Chirurgical Society of Montreal, came to enter practice in September. Apparently the outlook was not favorable for he left after two months. As a matter of fact, the French element in our population, which was quite large previous to 1860, had now dwindled to a small minority and most of them were in very moderate circumstances. It is doubtful whether there was more than a living for one man to be made from a clientele composed largely of persons of French Canadian extraction. In November, Dr. William Ray, who had left Chaska in 1868 for Missouri and had practiced also in Iowa, returned to Saint Paul. Dr. William Banks came with him. In August, Dr. Guy D. Daly (or Daley), who had come the year before, was elected county physician, but he resigned in December, going to Duluth. A retired physician from Missouri named William Baldwin also came to Saint Paul this year for his health. He did a little practice and remained till the time of his death in 1886.

Among the advertising physicians who came to Saint Paul this year was one Robert Hunter, who hailed from New York. He was a most persistent advertiser and used a column at least once a week, printing lectures, recommendations, et cetera. He brought with him "Dr. Rudolph Schiffmann, late of the St. Louis City Hospital, who will also act as interpreter for such German patients as do

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not speak English." Doctor Schiffmann remained many years. He made a fortune selling a cure for asthma. A Dr. Hunter applied for membership in the Ramsey County Medical Society in 1870, but he was rejected unless he ceased his "objectionable practice." Probably this was Dr. Robert Hunter. Late in the year a Dr. J. M. McKelvey came to Saint Paul, but remained only a short time.

The income tax returnes of Saint Paul physicians for the year ending May, 1869, are as follows. The figures include \$1,000 exempt:

A. G. Brisbine\$1,094	D. W. Hand\$1,138
S. D. Flagg 2,648	John Steele
J. H. Murphy	J. H. Stewart 4,685
Russel Post 4,559	A. Wharton 1,250
T. C. Schell	Samuel Willey 1,707
F. R. Smith	

In January, 1869, Col. D. A. Robertson began the publication of a magazine called *The Minnesota Monthly*. Thirteen numbers were published. It was largely devoted to agriculture. Every number, however, contained articles on household medicine or hygiene, most of them by Brewer Mattocks. In one of them Mattocks referred to Drs. Hunter and Duval as quacks and stated that the latter was in jail awaiting trial for the murder of his wife. In the number published in July, 1869, the following announcement was made:

Advertisements of quack medicines, gift enterprises, confidence games, clandestine obscenity and vice, and swindling nursery men and tree peddlers, humbug seeds, etc., etc., will be rigidly excluded.

There was considerable smallpox in Saint Paul during the first half of the year, about 125 cases being reported to the health office. In December the papers recorded that Dr. Hand performed Donder's operation of iridectomy for glaucoma, apparently the first time this operation had been performed in the city. There was a Dr. Somers in Saint Paul at this time and a Dr. F. Kerston. The latter was caught robbing George Presley's saloon. His office was upstairs.

Two deaths of physicians are recorded, that of John V. Wren, aged thirty-five, on December 11 at Magnolia, Mississippi; and B. L. Sellers at Wyalusing, Wisconsin, where he had resided for about two years. Both formerly lived in Saint Paul. Dr. Thomas E. Massey, who had resided in the city from 1857 to 1863, moved to Louisville, Kentucky. The following paragraph appeared in the papers on September 28:

Dr. Thomas J. Vaiden, who once owned ten thousand acres of land in Wisconsin and Minnesota and mortgaged nearly all to go into the milk business and never sold a pint of milk, is practicing his profession at Mt. Zion, Tenn. He is about publishing a 600-page book on his favorite subject of a Pure Republic vs. Imperialism, etc., a la "America Vindicated."

This was the Dr. Vaiden who came to Saint Paul in 1855 and left about 1866. Vaiden was a Virginian by birth and graduated from the University of Pennsylvania in 1831.

The narrative has now been carried to the year 1870. There seems to be no necessity of making a summary of the decade from 1860, but a few words perhaps may be said of the contributions to medical literature by Saint Paul physicians during these years. Only a few references, other than those already mentioned, can be found.

Dr. D. W. Hand, aside from his army reports, contributed an article on cholera, as he experienced it among the troops in 1865. Dr. Alfred Wharton reported

a case of "Puerperal Convulsions Treated with Chloroform," in the Buffalo Medical and Surgical Journal (Vol. I, No. 7, p. 213, February, 1862). Dr. Brewer Mattocks was author of an article on "The Effect of Climate upon the Lungs, with Special Reference to Minnesota" in the Medical Record for May 15, 1869. Dr. Samuel Willey contributed two articles: "Obstetrical Cases," in the Cincinnati Lancet and Observer (Vol. IV, No. 2, December, 1861), and "Dachylius Aculeatus" in the same journal (Vol. VI, N. S., p. 19, June, 1863). This last is an important communication as it is the first report of the finding of this parasite in the United States, and but one other case of infection has been reported in this country since. A number of articles written by physicians who later came to Saint Paul to reside may be found, but they are not included because these men were not residents at this time.

It seems worthwhile also to include here a bibliography of Thomas J. Vaiden, because listing his work gives us information as to his various places of residence, and many of them are not listed in the Surgeon General's Catalogue.

Treatise on Domestic Practice, Gainesville (Ala. ?), 1844, 8 vo.

Domestic Practice, Medical Tract to Illustrate Preceding Publications, Gainesville, 1844, 8 vo.

Commencement of a Practical System of Medicine, etc., Mobile, 1845, 8 vo.

Medical Companion, N. Y., 1852, 8 vo.

Medical Companion, Second Series, N. Y., 1852, 8 vo.

Rational Religion and Morals, etc., N. Y., 1852, 8 vo., by Thomas J. Vaiden of St. Louis America Vindicated, N. Y., 1855, 12 mo.

Bible of Rational Mind and Religion, et cetera, Boston, 1876 (?)

A review of medical activities during the sixties should also include a further mention of the Saint Paul Academy of Medicine and Surgery, which was organized March 1, 1860, and incorporated June 10, 1861. This was the first local medical organization to be established in the county. The officers and members for 1860 were:

President-Thomas R. Potts

Vice President-A. G. Brisbine

Treasurer-John Steele

Secretary-Alfred Wharton

Members—D. W. Hand, Samuel Willey, William H. Morton, F. Rieger, and J. H. Stewart; Honorary Members, Paul B. Goddard, Philadelphia; Joseph Leidy, Philadelphia; John Watson, New York; John L. Atlee, Lancaster; George McCook, Pittsburgh; Erastus Cushing, Cleveland; and John H. Murphy, St. Anthony.

On May 7, 1861, an eight-page pamphlet containing the constitution and by-laws of the Academy was published. This gives the officers for that year: A. G. Brisbine, president; Samuel Willey, vice president; D. W. Hand, librarian; the secretary and treasurer were the same as in 1860. The constitution states that "No person shall be admitted to the fellowship of this Academy . . . until he exhibits . . . satisfactory evidence of his being a graduate of some respectable medical school, recognized by the National Medical Association." The initiation fee was twenty dollars. In addition to monthly gatherings, an annual meeting was required which should take place on the first Tuesday in May of each and every year. Added to the pamphlet is the following note:

"It affords the Secretary much pleasure to state, that at the termination of the first year of the existence of the Academy of Medicine and Surgery, it is in a most flourishing condition, and its permanent success established beyond the remotest doubt. Although numbering but nine members, and during a period of great monetary depression, the Academy is in

the possession of two spacious rooms, suitably furnished and well lighted with gas; has procured at no little expense, a superior microscope, an analytical chemical apparatus, and an electrical machine; for the skillful selection of all which the Institution acknowledges its indebtedness to the kindness of Dr. Paul Beck Goddard of Philadelphia.

"A medical library has been commenced, which bids fair to attain a very respectable size through the contributions of physicians and by purchase.

"The Treasurer reports:

Cash received during the fiscal year. \$620.72
Cash expended during the fiscal year. 462.93
Balance on hand at end of year. 362.07

"It may be mentioned that the Academy early adopted the Code of Ethics of the National Medical Association.

"On behalf of the Academy, the undersigned would most cordially invite physicians from abroad, upon visiting Saint Paul, to make themselves known to the members thereof who will show them every attention in their power.

ALFRED WHARTON, M.D., Secretary

"Saint Paul, Minn., May 7, 1861."

The Academy obtained the positions of city and county physician for its president, and the members took turns in filling those positions, the emoluments of these offices being turned over to the Academy. A respectable income was thus assumed, during the earlier years at least.

Had this organization been able to survive the vicissitudes of the Civil War, no doubt it would have been strong and powerful. The story of its demise will be found in the narrative for the year 1866. Apparently, there was no change in its officers after 1861. It was necessary that five members be present to constitute a quorum, and it is doubtful whether during the war years a quorum could be obtained. The rooms of the Academy were in French's Block on Third Street. French's Block was a three-story stone building on the north side about where the driveway to the Public Library now is. In 1860, George Benz' saloon occupied the ground floor. As far as is known, no new members were ever admitted to the Academy. There seems reason to believe that the Academy contemplated the erection of a building, for in 1864 a payment was made on a lot on Third Street. We may also regard the Academy as giving some instruction in medicine, as medical students were allowed the use of their library and laboratory under their preceptors. The Academy also fostered Dr. D. B. Reed's lectures on chemistry during his stay here in 1861 and 1862.

Medicine in Saint Paul since 1870

The collection of data relative to the history of medicine in Ramsey County previous to 1870 necessitated considerable research, as there was no local medical literature in our state except the reports of the State Insane Asylum.

In 1870, the publication of the transactions of our State Medical Society was begun and the publication of our first medical journal, The Northwestern Medical and Surgical Journal, by Dr. Alexander J. Stone of Saint Paul. The minutes of our Ramsey County Medical Society are also preserved. These sources of information, together with the files of medical journals established at a later date, the minutes of other local and state societies make the gathering of material for medical history from this time on a comparatively easy task. The writer feels the better plan of procedure from this time is to give a brief outline sketch of medicine in Saint Paul, and if a more detailed history is desired some other more gifted person should take up the task. For this reason no biographic sketches will be included, and men prominent in the Ramsey County Medical Society will be mentioned only by name. Biographic material may readily be found. The writer also will confine himself largely to the history of the Ramsey County

Medical Society, since all physicians of prominence were members of it. It is true that there was a local and a twin city homeopathic medical society, but the followers of that cult never occupied positions of any prominence in medicine, and the more progressive among them were glad of the opportunity to be rated as physicians rather than homeopathic physicians. Before taking up the Ramsey County Medical Society a few incidents of general interest, not directly concerned with that Society, will be mentioned.

In 1870, Dr. Alexander J. Stone began the publication of the Northwestern Medical and Surgical Journal. Four volumes of this monthly journal were published. In 1872, the journal passed from his possession to Dr. Harry C. Hand, of Saint Paul and Dr. H. H. Kimball, of Minneapolis. Publication ceased in 1874. In 1881, Dr. Jay Owens founded the Northwestern Lancet, a bi-monthly publication, which later passed into the hands of Doctor Stone. After some years, it was sold and finally taken to Minneapolis. It has had a continuous and prosperous career since its beginning. In 1870, Dr. Stone founded the Saint Paul School for Medical Instruction. This school was designed to furnish more adequate and varied preparatory medical instruction than the preceptor system then in vogue. No degrees were conferred. The first faculty and officers of the school were:

Officers

President—Samuel D. Flagg Treasurer—Charles E. Smith Secretary—Alex. J. Stone

Board of Instructors

D. W. Hand—Surgery
Samuel D. Flagg—Materia Medica, Therapeutics and Diseases of Children
William Richeson—Anatomy and Chemistry
Brewer Mattocks—Physiology, Hygiene and Medical Jurisprudence
Charles E. Smith—Principles and Practice of Medicine
Alex. J. Stone—Obstetrics and Diseases of Women

In 1871, H. C. Hand taught pathology and J. B. Phillips, chemistry. In 1879, this school became the Saint Paul Medical College which was at one time affiliated with Hamline University. Classes were graduated and degrees conferred. In 1888, this school and the Minnesota College Hospital of Minneapolis gave up their charters when the Medical Faculty of the University of Minnesota became a teaching body. The history of medical instruction in Minnesota will be taken up in another portion of this book.

An event of considerable importance to the medical profession took place in Saint Paul in 1874. The Legislature of 1874 passed an abortion law, largely at the instance of the State Medical Society. Unfortunately, the law provided that an antemortem statement made under the belief of impending death was absolute proof of commission of abortion. The first fruit of this law was the conviction on June 9 of Dr. Jay Owens, who it was alleged, induced a pregnant female to take a medicine known as "Clark's Female Periodical Pills," and abortion followed. Owens was not allowed to introduce any testimony whatever, and was sent to the state prison. In November, Cushman K. Davis, who was Owen's attorney, was elected Governor and his first official act when he took office the following spring was to pardon Owens. The Legislature of 1875 then amended the law so that "no conviction shall be had upon the uncorroborated evidence of the woman." The first law made conviction easy, the modification made it difficult. In most states, no special rule of evidence for cases where abortion is charged exists, but the ordinary rule of evidence prevails. At the May, 1892,

meeting of the Ramsey County Medical Society, the subject of abortion was discussed and resolutions were passed to bring this matter before the State Medical Association at the meeting of that year, and to have the Association recommend to the Legislature the repeal of the law of special rule of evidence. The failure of the State Association to take action was probably due to the fact that many of the members felt that there was some personal animosity back of the attempt to change the law. At the time of his conviction, Dr. Jay Owens was associated with Dr. Alexander J. Stone. Doctor Owens, after his release from prison, continued to practice medicine in Saint Paul, and in 1886 was elected president of the Ramsey County Medical Society. He died on April 17, 1890.

About 1890, Dr. Walter Reed, U. S. A., was stationed in Saint Paul as surgeon of the department of the Dakotas. He and Dr. Louis B. Wilson, now of the Mayo Foundation and then a teacher in the Saint Paul High School, had a bacteriologic laboratory in the school. Doctor Wilson learned bacteriologic technic from Doctor Reed.

Regarding the various hospitals in Saint Paul, only St. Joseph's and St. Luke's existed prior to 1870. The history of their establishment has already been noted. St. Joseph's Hospital has occupied its present site since the beginning. St. Luke's Hospital was incorporated in 1855 and re-incorporated in 1866 under the name of the Christ Church Orphans Home and Hospital. It was then located at Park Place. In 1873, it was moved to the north side of West Fourth Street, west of St. Peter Street, and in the spring of 1874 a large house on the north side of Eighth Street, between Minnesota and Robert streets, was purchased from Mrs. Mary A. Robinson. The present site was occupied in 1892. Mrs. Mary A. Bradbury, who was matron of St. Luke's from 1880 to 1895, died in Los Angeles, California, on August 6, 1932, aged ninety-two years.

The Saint Paul Homeopathic Hospital was organized and located at 800 Agate Street in 1887. It had a short life. The Saint Paul Hospital was first known as Luther Hospital, and was founded by Dr. Edouard Boeckmann. This hospital has now passed out of existence.

The history of the other hospitals in Saint Paul may be found in Fifield's *American and Canadian Hospitals*. Various small and private hospitals have existed from time to time, but were and are of no importance.

(To be continued in June issue)

President's Letter

THE Minnesota State Legislature has adjourned. As individuals we may have been interested in many actions that came under consideration. As a group of doctors we were interested only in problems that involved the health of the people.

One reason why Minnesota is right at the top of all states in the Union in health is our past and present Legislative Committees, which have given us in more recent years the Basic Science Law and the Medical Practice Act, and which have consistently advocated beneficial health measures.

We have had many splendid men serving on our Legislative Committees throughout the history of the organization. John Armstrong's Historical Committee will testify to that. From the standpoint of practical achievement, however, a more positive era of health legislation began in recent years. Frank Savage served as chairman of the Legislative Committee for a period of time, also J. T. Christison and then W. L. Burnap, an unusually active president, secured the services of Herman Johnson. With Dr. Johnson were C. B. Wright, J. M. Hayes, S. H. Boyer, Charles Bolsta, F. J. Plondke, G. I. Badeaux, E. A. Eberlin. Space will not permit naming the entire list of faithful committee members through the terms of chairmanship of Drs. Savage, Christison, Johnson, and Sogge.

L. L. Sogge, our present chairman, had his training under Dr. Johnson and was with him from the start. The committee under his leadership has carried on as ably as if Dr. Johnson were living. Dr. Johnson, himself, always gave great credit for the success of the committee's work to Mr. F. Manley Brist, our legal adviser. In this he has been most strongly joined by Dr. Sogge and by all who know of Mr. Brist's fine work for the medical profession of Minnesota.

On May 31 the State Medical Convention will open with an excellent scientific program, a valuable public health exhibit, an unusual program of economics and a surprise entertainment by the Hennepin County Medical Society. Every member should arrange to attend this meeting.

GEORGE EARL, M.D., President, Minnesota State Medical Association.

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ORTHOSTATIC HYPOTENSION: DIFFEREN-TIAL DIAGNOSIS AND TREATMENT

M AN is enabled to assume the upright position because he is endowed with a delicate mechanism for adjusting his blood pressure to offset the hydrostatic effect of change in posture. This function of circulatory homeostasis is mainly a protective mechanism intended to prevent deprivation of oxygen of the central nervous system. The circulatory correction is accomplished through vasoconstriction and cardiac acceleration.

Orthostatic hypotension is a clinical syndrome in which the usual compensatory mechanism does not function efficiently; consequently, with change to the upright position there is a marked decrease in systolic and diastolic blood pressure, resulting in cerebral anoxemia. The syndrome of orthostatic hypotension was first described clearly by Bradbury and Eggleston in 1925. They used the term "postural hypotension." However, the term "orthostatic hypotension" as suggested by Laubry and Doumer, seems preferable since it indicates the bodily position in which the hypotension occurs. Since 1925, about forty cases of the condition have been reported in the literature.

The exact nature of the failure of vasomotor control in orthostatic hypotension is as yet unknown. Because of the associated symptoms indicating dysfunction of the sympathetic nervous system (particularly hypohidrosis or anhidrosis and failure of normal cardiac acceleration), it is thought that the fault is in the sympathetic nervous system. The characteristic features of orthostatic hypotension are (1) a marked decrease in systolic and diastolic blood pressure on assuming the erect position, resulting in weakness or syncope; (2) localized or generalized hypohidrosis or anhidrosis: (3) failure of the normal compensatory increase in pulse rate on assuming the upright position; (4) increased distress of the patient during hot weather; and (5) secretion of larger amounts of urine in the recumbent than in the upright position.

The differential diagnosis of this condition involves separating it from other types of syncope, particularly simple syncope, syncope referable to sensitivity of the carotid sinus, syncope associated with hypersensitivity to cold, heart block, hypoglycemic reactions, and seizures of petit or grand mal. The presence of a postural hypotension should be suspected if the patient complains of weakness or syncope only after change to the upright position or after standing for a short time. The differential diagnosis is simplified by taking the patient's blood pressure in the recumbent and standing positions and demonstrating the presence or absence of a marked orthostatic decrease in blood pressure. The presence of hypohidrosis or anhidrosis and the failure of cardiac acceleration will differentiate orthostatic hypotension from simple syncope and the syncope which follows prolonged rest in bed, in which conditions there also may be an orthostatic decrease in blood pressure. The syncope caused by hypersensitivity to cold is accompanied by a decrease in blood pressure which is not directly related to posture. The history or demonstration of urticarial swelling of the skin when the patient is exposed to cold will readily differentiate the syncope of hypersensitivity to cold from the syncope of orthostatic hypotension.

In the syncope of hypoglycemic reactions, of sensitivity of the carotid sinus, of heart block, or of petit mal seizures, the postural features of the syncope will not be prominent and the characteristic signs of these conditions, i.e., low fasting blood sugar, a hypersensitive carotid sinus, and electrocardiographic changes or electroencephalographic changes, can be demonstrated.

The treatment of orthostatic hypotension is directed toward the maintenance of the blood pressure above the level which produces symptoms. Those drugs which produce vasoconstriction have been the ones most commonly used. Among those reported to have been used with success are ephedrine, benzedrine, paredrine^{8,4} (beta-parahydroxyphenylisopropylamine), ergotamine tartrate, neosynephrine hydrochloride5 (levo-metahydroxy-phenyl-ethanol-methylamine hydrochloride) and pitressin (the pressor principle of the posterior lobe of the hypophysis).

It is of interest that none of the drugs used for the treatment of orthostatic hypotension are very effective in preventing the orthostatic decrease in blood pressure. They alleviate the symptoms by elevating the general blood pressure, so that when the orthostatic decrease does occur, the lowest pressure reached is still above the point where weakness or syncope would be produced. In this respect, the situation is the reverse of that obtaining in some cases of essential hypertension, in which the administration of certain vasodilating drugs will maintain the blood pressure at a lower level, but will not prevent the same range of reaction of the blood pressure to stimulation. Ephedrine has been the drug usually chosen for the treatment of orthostatic hypotension. However, paredrine hydrobromide and neosynephrin hydrochloride are reported to produce equally as good results as ephedrine without the undesirable accessory re-

actions caused by ephedrine. The undesirable accessory effects of ephedrine and benzedrine are nervousness and insomnia. The patient having orthostatic hypotension usually can tolerate larger doses of ephedrine than can other persons. and relatively large amounts of this drug may be administered without producing unpleasant accessory effects. The best drug to use and the amount of it required are individual questions; the treatment must be adjusted to the patient. Some of these drugs may stimulate sweating sufficiently. If the anhidrosis is especially annoving, pilocarpine hydrochloride may be administered by mouth.

E. A. HINES, JR.

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THE BARBITURATES AND LEGISLATION

HE last Minnesota State Legislature passed a law, similar to those already passed by some sixteen other state legislatures, limiting the sale of barbiturates to the public on prescription only. As far as the medical profession is concerned, the usual rules for the writing of a prescription apply; refills are not allowed without written or direct verbal authority from the prescriber. Physicians may be thankful that the inconvenience of writing refill prescriptions has been eliminated by legislation. This should make full cooperation on the part of the profession assured.

Although most physicians have encountered instances of the abuse of barbiturates, the article by Hambourger* must have been a revelation to many. It seems that at the meeting of the House of Delegates of the A.M.A. in June, 1937, a resolution was introduced on the evils resulting from promiscuous use of barbituric acid and derivative drugs. The resolution included the statement that "The evils of these drugs include habit formations, toxic cumulative action, their substitu-

^{*}Hambourger, W. E.: A study of the promiscuous use of the barbiturates. Jour. A.M.A., 112:1340, (April 8) 1939.

tion for alcoholic beverages for drunken episodes, their use for successful, as well as unsuccessful, suicidal attempts, their improper use being a recognized causative factor in many motor accidents and their improper use being a recognized etiological factor in some criminal assaults. ..." The report by Hambourger was limited to the phase of the use of barbiturates for suicidal intent and was published for the Council on Pharmacy. Some of the author's disclosures are startling and emphasize the need for legislation.

According to this author, more than 1,200,000,-000 grains of barbiturates were sold in the United States in the year 1936. This, because of high United States duty, practically represents consumption in this country. What percentages are sold by druggists over the counter, dispensed by prescription, used for psychotics or for basal anesthesia, is unknown. At any rate, the total amount is much too much. United States Census Bureau figures show that in the five-year period, 1932 to 1936, inclusive, there were 634 suicides in the United States attributed to barbiturates-4.2 per cent of all suicides from poison. In 1936, 171 suicides were due to the barbiturates; 165 more classified as accidental deaths due to the barbiturates. It is, therefore, conservative to estimate some 300 suicides during 1936 from this cause. The number has probably increased since 1936.

The possession of large quantities of barbiturates is dangerous and should be classed with the possession of firearms. Either one being on hand is too convenient to use with suicidal intent during emotional upsets. There are probably as many unsuccessful as successful attempts at suicide by this means. Fully as serious a phase of the abuse of the barbiturates is the mental derangement reported at times from their habitual use. It would be instructive to know how many automobile accidents or criminal assaults are attributable to their use.

The medical profession has doubtless been to some extent responsible for the present vogue in sedation. Much of the need for sedatives could be avoided by a sensible restriction or elimination of stimulants such as coffee and nicotine. A realization of the enormous amount of barbiturates consumed should assure the cooperation of the profession in an attempt to reduce the use of these valuable drugs by careful prescribing.

LEGISLATION REGARDING BARBITAL

There is published herewith the complete text of the law enacted by the 1939 Minnesota Legislature on the subject of barbital, the derivatives of barbituric acid, and preparations containing such substances. This law was sponsored in the Senate by Senator Wahlstrand of Willmar and Senator Oliver* of Graceville. In the House of Representatives it was introduced by Representatives Paige of Minneapolis, Eklund* of Duluth and the late Dr. Lowe of Pipestone.

Much credit is due Senator Wahlstrand for the passage of this law. His interest was due to the abuses attending the unrestricted sale, in drug stores, to children and barbiturate addicts of these various preparations. Senator Wahlstrand stated he had no desire to impose restrictions on the ethical practitioner of medicine and publicly commended the Minnesota State Medical Association for their assistance in drafting and passing the law. The law requires no special permits on the part of physicians nor does it call for any fee. It simply states that a physician must act "in good faith" in the prescribing, administering and dispensing of barbital. Drug stores, however, cannot sell barbital, as defined in the act, except on the prescription of a physician, dentist or veterinarian, as the case may be.

Every member of the Minnesota State Medical Association is urged to read this law, and particularly the provisions in reference to writing prescriptions. Remember! they cannot be refilled without your consent. The authors of this law are your friends-the measure is a public health act-do your very best to comply with it and to help in its enforcement.

> Committee on Public Policy. Minnesota State Medical Association. L. L. Sogge, M.D., Chairman.

An Act

Regulating the Sale, Gift, Order, Exchange, Distribution and Possession of Barbital, Bar-bituric Acid, Its Compounds and Derivatives, and Providing Penalties for Its Violation. BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF

MINNESOTA: Section 1. It shall be unlawful for any person, firm or corporation to have in his, or its, possession, or to sell, give away, barter, exchange or distribute barbital, except on a written prescription of a doctor of medi-cine, doctor of dental surgery, or doctor of veterinary medicine, lawfully practicing his profession in this

Section 2. For the purposes of this Act, the word "barbital" means: barbital and any derivative thereof; diethylbarbituric acid; any alkyl, aryl, metallic or halo-genated derivative of barbituric acid; veronal (barbi-tone); proponal; ipral; dial; neonal (soneryl); sandoptal; amytal; phenobarbital (luminal); phandorn; noctal; allonal (which contains allylisopropyl-barbituric acid in combination with amidopyrine); medinal; any prepara-tion, mixture or other substance containing any of the

foregoing substances.

Section 3. No person other than a licensed pharmacist, shall sell barbital, and then, only as provided in

this act.

Section 4. For the purposes of this act, a prescription for barbital is void unless (1) it is written in ink and contains the name and address of the person for

^{*}Physicians.

whose use it is intended; (2) it states the amount of barbital to be compounded or dispensed, with directions for its use; (3) it contains the signature and address of the prescriber, and a designation of the branch of the healing art pursued by the prescriber, and (4) it shows the date when signed by the prescriber. Every licensed pharmacist who compounds any such prescription, shall at that time, mark it in ink so as to show that it has been compounded, and the date thereof, and he shall retain such prescription in a separate file for a period of not less than two years, open to inspection by any officer of the state, county or municipal government, whose duty it is to aid and assist with the erforcement of this act. No such prescription shall be refilled, except with the written or verbal consent of the prescriber, provided that the date of such consent must be recorded, in ink or indelible pencil, upon the original prescription by the pharmacist who refills the said prescription together with the name of said pharmacist, and provided further, that in event of verbal consent it must be direct from the prescriber to the said pharmacist. Every such pharmacist shall distinctly label the container with the directions contained in the prescription for the use thereof, and the following warning: "Use Only As Directed."

Section 5. (1) A licensed doctor of medicine, or a licensed doctor of dentistry, in good faith, and in the course of his professional practice only, may prescribe, administer, and dispense barbital, or he may cause the same to be administered by a nurse or interne under

his direction and supervision.

(2) A licensed doctor of veterinary medicine, in good faith, and in the course of his professional practice only, and not for use by a human being may prescribe, administer, and dispense barbital, and he may cause the same to be administered by an assistant under his direction and supervision.

(3) Nothing in this act shall prohibit the sale to, nor the possession of, barbital, by wholesale drug concerns, registered pharmacies, licensed pharmacists, licensed doctors of medicine, licensed doctors of dentistry, licensed doctors of veterinary medicine, or any bona fide hospital or other bona fide institutions wherein sick and injured persons are cared for or treated, or bona fide hospitals wherein animals are treated.

Section 6. Any person, firm or corporation that violates any provision of this act shall be guilty of a gross misdemeanor, and upon conviction thereof, shall be punished by a fine of not to exceed \$1,000 or imprisonment in the county jail for not to exceed one year or by

both such fine and imprisonment.

Some of the preparations regulated under Section 4 of the Barbituric Law and which now must be dispensed only with a dector's prescription written in ink are as follows:

Amytai Tablets
Amytal Elixir
Amytal Compound Capsules
Amytal C Acetylsalicylic Acid
Amytal & Ephedrine Capsules
Amytal & Theamin Capsules
Amytal & Theamin Capsules
Amytal Sodium Capsules
Amytal Sodium Mappositories
Amytal Sodium Ampoules
Epragen Capsules
Barbital Tablets
Allonal
Arlcaps
Allonal
Arlcaps
Alurate
Amidopyrine & Phenobarbital
Adalin Luminal
Adalin Luminal
Amidoneonal
Kres-Lumin
Luminal Tabs,
Luminal Sodium Tablets
Luminal Sodium Tablets
Luminal Sodium Tablets
Eluminal Sodium Ampoules
Barbitone
Barbitone
Bellergal
Belladenal
Barbella

Calcidrine Syrup
Cibalgine
Dial
Evipal
Evicyl
Epharbital
Ephedraphen
Iocapral
Ipral Calcium
Ipral Sodium
Ipral Sodium
Ipral Elixir
Ipral Aspirin
Ipralidon
Mebral
Medinal Tablets
Neonal Compound
Neonal Elixir
Nembutal Capsules
Nembutal Elixir
Nembutal Syropsitories
Nembutal Suppositories
Nembutal & Aspirin
Ortal Combinations
Ortal Combinations
Peralga Tablets
Penobarbital
Pentabarbital Sodium Capsules

Theodiatal Capsules
Tedral Tablets
Thebital Tablets
Theominal Tablets
Veronal
Dialacetin
Lumalgin
Lumodrin
Nembutal & Ephedrine Capsules
Novasural
Ortal Sodium Capsules

Ortal Ampoules
Phanodorm Tablets
Phenobarbital Sodium
Pentabarbital Sodium Suppositories
Sedabarb
Sedaphen
Theobromine Compound Tablets
Ethobral Tablets
Veronal Sodium
Ephatal Capsules

SAL TRAG FOR ARTHRITIS

A S AN herb remedy for arthritis, called Sal Trag, is being offered to the local profession, the following information may be of interest:

In June, 1924, the Federal Trade Commission at Washington reported that Sal Trag and Nue-Ovo were practically the same product. Sal Trag is the name given this remedy of secret composition when offered to the profession, and Nue-Ovo is the name given when it is sold to the public. Sal Trag is probably more concentrated. In 1929, the Food and Drug Administration reported in a notice of judgment that Nue-Ovo was misbranded because it was being sold under false and fraudulent therapeutic claims. At that time, the federal chemists declared that the preparation was a brown watery solution of extracts of plant drugs, including a laxative drug, a bitter drug, resin, saponin and caffeine, colored with caramel and preserved with sodium benzoate.

There is at least one report of a severe inflammation of both eyes, with a residual visual defect in a woman who had taken Nue-Ovo for arthritis. It is dangerous and not good practice to prescribe drugs of unknown composition, or containing ingredients, the action of which is not known.

Oral Pollen Preparations

Early last year the Chicago Society of Allergy issued a note of warning in reference to the use of oral pollen preparations, not only because of the probable numerous disappointments which might occure following the use of oral pollen preparations but also because of the possible dangers inherent in any new and unproved method of treatment. In The Journal, March 25, 1939, appears a new communication from the Chicago Society of Allergy. The Society is to be commended for its stand against the exploitation of a product for oral administration in the treatment of hay fever which may be not only beneficial but a decided economic loss to the patient. The difficulty of regulating dosage because of the difference in rate of absorption from the gastrointestinal tract alone is a serious objection to this mode of therapy. It will require considerable evidence to show by passive transfer work that pollen is absorbed in the doses intended. The Council on Pharmacy and Chemistry of the American Medical Association has accepted no pollen preparation proposed for oral administration. (J.A.M.A., March 25, 1939, p. 1159).

MEDICAL ECONOMICS

Edited by the Committee on Medical Economics of the Minnesota State Medical Association

W. F. Braasch. M.D., Chairman

HOW SHALL MEDICAL CARE BE IMPROVED?

NO ONE would deny, least of all physicians, that medical care of the people of our country can and should be improved, but there is vast divergence of opinion as to how that improvement can be brought about.

Representatives of one school of thought reiterate the unverified and unverifiable statement that a third of our population receives inadequate medical care. This viewpoint seems to imply that the percentage of the population which receives inadequate medical care is immeasurably greater than it was in times past. Anyone whose experience covers a period of three or four decades knows emphatically that this is not the case. The innumerable projects to which physicians have given their services, including dispensaries, sanitariums, hospitals for crippled children and programs for prevention of communicable diseases have resulted in much wider and more effective distribution of medical care than formerly was available. The conquest of communicable disease, the constantly falling death rate from tuberculosis and the increasing span of life attest the efficacy of these services and denote an achievement that exempts the medical profession from a charge of incompetency, to say the least.

The list of achievements is long. What would life be today without vaccination for small-pox, immunization against diphtheria, anti-diphtheritic serums, insulin, liver extract for pernicious anemia, antipneumonococcus serums and, lately, sulfanilamide and sulfapyridine, to mention only a few agents and methods for control and cure of dreaded diseases?

Shrewd Gesture

It is a shrewd political gesture to proclaim the urgent need for wider distribution of medical agents and services. In like manner politicians have found it wise to declare for ham and eggs every Thursday or for the Townsend plan, to secure their election, without any great concern about a source of revenue to finance such schemes or indeed, one suspects, without any serious intent of supporting such harebrained proposals after their election. If one opposes the Government's plan to secure a wider distribution of medical care, though subscribing to the worthiness of the objective, one is labeled a reactionary and accused of lack of humane instincts.

The fundamental reason the medical profession is opposed to socialized medicine as proposed by the present administration is its instinctive surmise that it has a political motivation. Those who compose the public are asked to accept the Government's apparent solicitude for their health as a purely altruistic gesture in no way related to their vote in the coming election. They are asked to forget that in one more respect the Federal Government will reach down and regulate one of their most precious prerogatives, namely, their relation with their physicians. They are asked to believe that appointments of physicians to care for their health will be based solely on competency, rather than on the basis of political expediency. They are asked to forget that bureaucracy in medicine is no different than it is in any other field, devouring too large a measure of their funds designed to provide for their medical care.

Only the Husks

The same public is asked to believe that a physician in a more or less regimented system will have the same incentive to make medical discoveries, to advance his medical knowledge, or to treat each patient with the same degree of thoroughness as he would if the present competitive practice based on free choice of physician existed. In a system of medical care dominated by governmental regulation, the citizen is

likely to wake up to find that he has sold his medical birthright for a mess of governmental pottage and to learn that he is receiving only the husks of medical care.

This is not to deny the need for adapting medical practice to changing medical needs. The medical profession is progressive and believes in the necessity of continual growth and adaptation. But it has a few fundamental beliefs as to the way those changes should be made. It believes that the change must be evolutionary and not revolutionary, if colossal mistakes are to be avoided. It does not believe that there is any substitute for local administrative responsibility for securing efficient medical services adapted to local needs. It believes that as a body it is better qualified than any other group of people to formulate plans for improvement of medical care in its own community, that it must have a vital part in the executive policies controlling any effective health program and, finally, that the freedom of a patient to select the physician of his choice is essential to any plan of governmental assistance in medical care and is an inalienable right of a patient in a free nation.

Profession Will Cooperate

I am sure that the medical profession will gladly cooperate with the Government in a program of better medical care that is based on these principles. Unless we have lost our faith in local self-government these principles are sound and are in keeping with the ideals on which our democracy is founded.

W. F. B.

EXPERIMENTS IN MEDICAL SERVICE

The leaven of reform is working in the ranks of medical organizations much as the New Deal politico-sociologists had hoped and planned. Propaganda has put across the grossly exaggerated claims of lack of medical care on public opinion and the politicians now are watching results. Believing that there is a popular demand for sickness insurance and in order to stop legislative demands, various state and local medical societies either have or are about to propose plans for sickness insurance. Spurred on by the apparent success of group hospital insurance, somewhat similar methods are being applied to medical care. Any plan which would

permit of an equable distribution of the costs of illness among patients and which would not alter the present system of medical practice would seem worth striving for. With this purpose in view, voluntary methods of sickness insurance are being offered to the public in many sections of the country. This in spite of the warning issued by most economists that voluntary systems of health insurance are doomed to failure and invariably lead to compulsory insurance.

How are these plans working out? It is, of course, too early to make any definite observations but difficulties are already developing to plague the sponsors. For instance, the health service system of medicine adopted in one large city, which started out bravely over a year ago, offering health care at bargain rates, gives evidence of having serious difficulties. The unit system of reimbursement for medical services rendered which was originally evaluated at \$1.00 is now reduced to about 18 cents. In other words, the overhead administrative costs have increased to such extent that the reduced net income leaves very little for the doctor. This is only one of many other unforeseen difficulties. The latest is that the drugless practitioners are insisting upon being added to the professional staff and, being a semi-public project, their demands have a good chance of being adopted.

Minnesota Is Fortunate

As Dr. C. B. Wright recently emphasized before members of our state medical society, no plan of unproven economic value which is being promoted for the purpose of preventing the legislative adoption of another plan is on a sound basis. There are too many factors which are bound to cause trouble in the plans which have been proposed so far.

We physicians in Minnesota are indeed fortunately situated. In the first place we have a well-trained profession, who are practicing good medicine to the satisfaction of the majority of the people. They have been most generous in giving medical care to the sub-economic groups and have made many sacrifices in these uncertain times. They believe that the present methods of distributing medical care will prove to be the best in the long run for all concerned. The great majority of the people of the state have not been greatly influenced by federal prop-

aganda so far, because they mistrust governmental medicine.

Our Courageous Colleagues

Let us then continue to remain as observers of the very interesting spectacle of federal efforts to force sickness insurance on the public on one side and on the other side watch the courageous efforts of our colleagues in various parts of the country charting the unknown seas of medical distribution. Let us be open-minded, however, and if any sound improvement on our present system proves to be worthwhile, by all means consider it. Slow and well considered evolution in the delicately balanced institution of medical practice would seem to be a logical course. In the meantime, let us concentrate on improving our methods of practice by systematic efforts to enlarge our knowledge of medicine. This is the best answer to public dissatisfaction.

W. F. B.

NEW CHOICE OF VENDOR CLAUSE

Many legislative enactments of great interest to physicians marked the notable 1939 session just concluded.

Among them is the Barbital Law commented upon elsewhere in this issue of MINNESOTA MEDICINE. The Reorganization Law is also of special interest to physicians on two accounts. First, it puts the administration of all services involving medical care to relief clients and to recipients of social security aids in one department under one directing head. Thus the ground work is laid for elimination of long standing duplications, misunderstandings, over-lapping and gaps in services. Second, it maintains the former status of the State Board of Medical Examiners as an independent board, independently supported by fees of licensed physicians. The original provisions of the bill called for a tax on the funds of all boards and likewise gave the administrator power to consolidate and otherwise regulate them. Long experience with this board as it has functioned under Minnesota's model basic science legislation and medical practice act has shown the wisdom of maintaining it as a self-sustaining agency.

Law Clarified

Of immediate personal importance to every physician in the state is the new choice-of-vendor clause which was restated in the new relief law with a clarifying phrase which should end any further discussion as to its applicability to the services of the physician. As the law now reads the relief client is specifically guaranteed his choice-of-vendor for services and supplies.

The choice-of-vendor clause as written in the 1936 law ushered in a new era in the handling of medical relief in Minnesota. Whereas there had been free choice of physician for the indigent in a few counties before 1936, many other counties still retained the county physician system of care for the sick poor and his legal status was unquestioned.

Discussion: Complaints

With the new law and the subsequent interpretation of the Attorney General which definitely placed the physician as a vendor within the meaning of the law, the county poor physician became a thing of the past in all the counties that accepted state aid.

The question remained an issue, however, with county commissioners and welfare boards questioning the interpretation of the Attorney General in several quarters. Lively discussion of the merits of the free-choice-of-physician system have marked several county welfare board conferences of late and complaints have been voiced concerning the cost.

Trust Merited

The action of the legislature in clarifying and strengthening the choice-of-vendor clause, in the face of these discussions, constitutes a double reassurance to the physicians. It indicates first that the rights of the individual are still regarded as important rights by Minnesota legislators. It indicates, also, the trust which is reposed in the medical profession in Minnesota. This trust has been well justified, not only during the relief years but over all the years when the physician alone shouldered the burden of the sick poor in his locality with occasional and uncertain aid from the authorities.

It goes without saying that members of the Minnesota State Medical Association will cooperate heartily with county welfare boards to continue to merit that trust and to keep medical costs as low as possible in these difficult years of relief financing.

FOR A STUDY OF SEX CRIME

The bill providing for the apprehension of potential sex criminals was regarded by its sponsors and by both branches of the legislature as a preliminary step, only, in the control of the problem of sex crime.

The Minnesota State Medical Association and the Minnesota State Bar Association were named jointly by the House Judiciary Committee which recommended passage of the bill as "technically equipped to make invaluable recommendations towards the solution of this problem."

A resolution requesting that the State Bar Association and the State Medical Association appoint committees from each body to study the subject of psychopathic personalities and also that the committees so appointed transmit a report of their findings as well as their recommendations to the governor and to the House of Representatives at the beginning of the legislative session of 1941 was passed by the committee and subsequently transmitted to the secretary of the association.

These reports will be utilized to formulate further and additional legislation to cope adequately with this problem.

The request of the House Judiciary Committee will be presented to the Council of the Association at the annual meeting, May 31, June 1 and 2, in the Minneapolis Auditorium.

DIFFICULTY IN DULUTH

A new fee schedule with regulations and instructions has just been issued by the St. Louis County Welfare Board. After many years of close coöperation between physicians and welfare board in St. Louis County, this schedule has aroused a just resentment among those who have assisted in making St. Louis County the envy and admiration of many other localities in the state for the smoothness and efficiency of its system.

"It is the desire of the County Welfare Board," say the new instructions, "to maintain the contact of the private physician with his former patients who may now be county charges, but at the same time it expects the private physician to render dependable service and to continually bear in mind the fact that it is the tax-

payers' money that is being spent." Well, there are over a hundred physicians referred to in this community who are some of the taxpayers. They have been taking care of these people, who are now charges, down through the years, through good times and bad. Without a Welfare Board to watch over them and to tell them what it "expects" of them, physicians have rendered dependable service to these patients who are now, perhaps temporarily, receiving county aid. It sounds like a play of words to impress the public and also a bit dictatorial. Following the preamble quoted above, some of the absurdities of a fee schedule are listed such as "collarbone fracture, \$7.50" and "clavicle fracture, \$25.00; nose fracture, \$12.50" and "nose broken, \$37.50," all of which suggests that physicians, "expected to render dependable service," were not consulted in the formulation of the fee schedule.

A. N. C.

"AIM: TO SAVE LIVES"

The effectiveness of the 1939 Co-Ordinated Medical and Public Health Program is measured to some extent by the response and coöperation it has evoked from Minnesota newspapers.

No newspaper has shown more intelligent interest in medical news and in public health education in general than the *Minneapolis Journal*. The editorial printed below appeared on Monday, April 3. It is reprinted here as evidence both of the coöperative spirit of the *Journal* and of the effectiveness of this new program:

Cancer Prevention

Time is an all-important factor in the arresting of any serious disease, and in none is early treatment more important than in cancer. For this scourge creeps up stealthily, like a thief in the night, and its early symptoms seldom cause alarm.

The State Medical Association is carrying on an educational campaign this month, to save lives from cancer. The disease caused 3,775 deaths in Minnesota last year, and was second only to ailments of the heart in fatalities. The job the medical men are undertaking is to make older persons conscious of the danger of cancer, so they will not hesitate to have diagnoses made whenever there is cause to suspect approach of the disease. Better still would be periodical check-ups. Physicians say that not more than 15 per cent of cancer cases are discovered in time for effective treatment. Given an earlier detection of cancer, fully half the deaths from this disease could be prevented.

The Women's Field Army Against Cancer, now conducting a membership drive, has the same purpose as that of the physicians. Both organizations are trying to overcome the foolish reluctance of so many persons to give the doctor a chance—to head off fatal illness by going to him in time. The efforts of these organizations deserve support and appreciation. Their aim is to save lives.

KNOW YOUR DRUGS

(Monthly Editorial Prepared by the Medical Advisory Committee)

From time to time your Medical Advisory Committee has brought to the attention of the members various conditions, arising in the treatment of patients, that are being used by these patients as reasons for bringing action in court against our membership. In the last months numerous cases have arisen from alleged malpractice in the use of the injection methods of treatment, the use of sclerosing injections in varicose veins, hemorrhoids, and hernias, the injection of serums without first finding out the reactions of the patient to such serums, the injections of the salts of arsenic and salicylates as well as other well known remedial agents.

Knowing this, it is well to remember that normal tissues can be harmed by these solutions and that some people are particularly allergic even to the smallest amount of some drugs.

It behooves the man making these injections and giving these treatments, therefore, not only to have a firm groundwork in the fundamentals of this method, but to be sure of the purity and accuracy as to dosage of the drug used, as well as the ability and financial standing of the manufacturer to back up any claims which they may make for the drug. Unscrupulous manufacturers are making extravagant claims which have no foundation in fact. You can well be made the unwilling victim of these claims.

In this day and age the best is still none too good. Know your drugs and know how and when to give them.

B. J. B.

CONFERENCE SPEAKERS

Speakers who are scheduled to participate in the Conference on Medical Problems which occupies the final day's sessions, Friday, June 2, of the 86th Annual Meeting at the Minneapolis Auditorium, are authorities in their fields. All are making definite contributions to the solution of medical and public health problems in America.

Gen. C. E. Waller of the United States Public Health Service is Surgeon-General Thomas Parran's right hand man in Washington and in the field. He is one of the key men in the program of the public health service.

Dr. F. W. Jackson of Winnipeg has been deputy minister of health of Manitoba (the minister, himself, is an elected official and a layman) for many years. He has watched the development of Canada's experiments with new technics of medical service and he has officially represented the medical profession in this development.

Mr. J. G. Crownhart, secretary of the Wisconsin State Medical Society, has made one of the most important contributions of our time to American knowledge of socialized and state medical systems in Europe. He is also leading his organization in a fight against the corporation income tax which may be of the utmost importance to every state medical association in the United States. The Wisconsin society won its initial legislative battle in a state skirmish for socialization of medicine in the Wisconsin legislature last year.

The Rt. Rev. Monsignor M. F. Griffin of Cleveland is Senior Trustee of the American Hospital Association and an active official in the Catholic Hospital Association, powerful defender of private and voluntary investment in our system of care for the sick.

Mr. J. A. A. Burnquist, attorney general of the State of Minnesota, is also a former governor of the state and exceptionally well qualified to talk on the history and character of Minnesota's legislation for care of the sick poor.

Dr. F. Stuart Chapin is chairman of the Department of Sociology of the University of Minnesota, director of the graduate school of social work and a nationally recognized authority on social needs and social problems, among which the problem of distribution of medical care has loomed large as a result of events of the last few years.

In addition to these guest speakers, Dr. W. A. O'Brien, the association radio speaker, and President George Earl, will be present to represent Minnesota physicians, with Dr. Frank Savage of Saint Paul, and Dr. W. F. Braasch of Rochester, as presiding officers.

The program is unique, the conference the only one of its sort to be held this year by any state medical association. Every physician in Minnesota should make it a special point to attend.

MINNESOTA STATE BOARD OF MEDICAL EXAMINERS

Mankato Physician Enters Plea of Guilty

Re: State of Minnesota vs. Arthur W. Eckstein, M.D.

On April 8, 1939, Arthur W. Eckstein, M.D., of Mankato, Minnesota, entered a plea of guilty to an information charging him with the crime of abortion committed on or about October 15, 1938, in the city of Mankato. Dr. Eckstein was also arraigned on a previous conviction (1934), and at the conclusion of which he was sentenced by the Honorable Harry A. Johnson, Judge of the District Court, to a term of not to exceed four years in a state penal institution. The Court was advised by legal counsel for the defendant that Dr. Eckstein's license to practice medicine had been revoked by the Minnesota State Board of Medical Examiners on December 16, 1938, for procuring, aiding and abetting a criminal abortion. Counsel also stated that Dr. Eckstein was employed by a wholesale pharmaceutical house of Milwaukee, Wisconsin, and that he was engaged in sales work for that concern in the eastern half of Iowa. Following a lengthy plea by Dr. Eckstein's lawyer, the Court suspended the sentence and placed Dr. Eckstein on probation in charge of the State Board of Parole. The Court warned Dr. Eckstein that in 1934 he had served a sentence in the State Prison for a similar offense, and that any violation of his probation, would result in his having to serve the entire sentence.

Dr. Eckstein was born at New Ulm, Minnesota, December 8, 1888. He graduated from the Medical School at Northwestern University in 1912. He was first licensed in Minnesota, by examination, in the same year, but had his license revoked in 1934, following his pleading guilty to a similar offense. Despite the fact that he was permitted, upon his release, to take the medical examination for a new license, and was subsequently granted a license, he again became involved with the law over the performing of a criminal abortion, resulting in the present criminal charge and the revocation of his license by the Medical Board on December 16, 1938.

OF GENERAL INTEREST

Dr. and Mrs. Daniel A. MacDonald left April 30 on a European trip. They will return July 1.

Dr. R. E. Cooper is the newly-elected school board member of the community at Sauk Center, Minnesota.

Dr. C. F. Wohlrabe, formerly of Minneapolis, has taken over the practice and hospital previously attended by Dr. M. H. Larson, at Nicollet, Minnesota.

Dr. S. D. Wolsztajn, who was previously associated with Dr. O. Daignault at Benson, has opened an office in Minneota for the practice of medicine.

Dr. A. F. Dworak is now practising medicine and surgery at Rosemount, Minnesota, where he opened offices in the Geraghty Building on Monday, April 17.

Dr. David Gaviser has recently associated himself with Dr. R. F. Werner, of International Falls. Dr. Gaviser was formerly on the staff of Minneapolis General Hospital.

Dr. Lynn Hammerstad, Windom, Minnesota, recently was appointed by federal authorities to serve as federal medical examiner of students registering for courses in aviation at the University of Minnesota.

Dr. Robert B. Tudor, of Minneapolis, joined Dr. J. F. Cumming of Morris, Minnesota, the first of April, in the practice of medicine. Dr. Tudor has come to Morris after serving interneships at several hospitals in the Twin Cities.

Motion pictures, through the courtesy of General Electric Company, were shown at the meeting of the Rice County Medical Association held April 5 in the Faribault Clinic Rooms. The movies portrayed the electro-cardiographic process.

Dr. P. J. Bursheim, who for some time past has been in the retail drug business at Atlantic, Iowa, has resumed his practice of medicine in the community of Exira, Iowa. Prior to his entering the drug business, Dr. Bursheim served the community of Lake Benton, Minnesota, as physician and surgeon.

Charles Bishop Will of Bertha, Minnesota, received his degree of Doctor of Medicine at the early spring commencement held recently at the University of Minnesota. For the past year, Dr. Will has been serving an interneship at Saint Luke's Hospital in Duluth. He will practice medicine at Ladysmith, Wisconsin.

Dr. M. G. Franta, Sauk Center, Minnesota, was appointed in March to take applications from young men who wish to enter one of the camps provided by the federal government for young men from the ages of 17 to 24 years. Dr. Franta's title in this capacity

to 24 years. Dr. Franta's title in this capacity is chairman of the Seventh Corps Area, Citizens' Military Training Camps.

Dr. Gerald Taylor Evans, Assistant Professor of Physiological Chemistry, Yale University, has been appointed Associate Professor of Medicine and Director of Chemical and Metabolic Laboratories, University Hospital, University of Minnesota. Dr. Evans received his M.D. degree from McGill University in 1929 and his Ph.D. in Medicine from the University of Pennsylvania in 1936.

After more than forty-four years of service, Dr. G. E. Vaughan, of Winnebago, has made known his intention to retire from the practice of medicine. He has removed his offices from the Germain Building in Winnebago, to his residence, where he will care for those patients who especially wish him to attend them in their illness. He expects to have withdrawn entirely from active practice by next fall.

"Polypoid Disease of the Colon" is the title of Dr. R. F. Hedin's prize-winning essay which won for him the sum of \$250.00, awarded by the Chicago Surgical Society for his report on original clinical investigative work. The paper will be presented before the Chicago Surgical Society on May 5. Dr. Hedin, who has been doing graduate work in Chicago, will return this summer to Red Wing to resume his practice.

The Saint Paul Surgical Society was host to prominent physicians from Chicago, Milwaukee, Duluth, Rochester, and Minneapolis, at its annual dinner on Thursday evening, April 13, in the Minnesota Club. Dr. Loyal Davis, professor of surgery at Northwestern University, Chicago, and well-known writer of medical treatises, was principal speaker of the occasion. Dr. W. C. Carroll is president of the Saint Paul Surgical Society.

Drs. George A. Earl and Everett K. Geer were principal speakers at the regular monthly meeting of the Washington County Medical Society held Tuesday evening, April 11, in the society's club rooms at Stillwater. Dr. Earl discussed in detail modern technics in the diagnosis and treatment of cancer of the gastro-intestinal tract. Dr. Geer gave an illustrated lecture

based on seventy-three x-ray plates of the chests of positive Mantoux reactors.

Professor August Krogh and his wife, Dr. Marie Krogh, of the University of Copenhagen, were guests of the Medical School of the University of Minnesota for ten days (March 25 to April 4). During their visit Professor Krogh presented lectures and seminars on the following subjects: "Osmotic and Ionic Regulation in Animals," "Circulatory Adjustment to Posture in Man," and "Comparative Physiology of Respiration." Dr. Marie Krogh presented a lecture on "Nutritional Problems in Denmark."

Dr. L. H. Rutledge of Detroit Lakes was named chief of staff at Saint Mary's Hospital there, when nine doctors of the county convened Tuesday, March 21, to hold a hospital staff organization meeting. Drs. O. O. Larsen and Arnold Larson were named vice president and secretary, respectively. Drs. J. E. Carman, A. E. Sprafka, H. W. Arndt, A. R. Ellingson, all of Detroit Lakes, G. G. Haight of Audubon, and C. W. Moberg of Lake Park, are also staff members of the hospital. Sister Monica superintends the institution.

The Itasca County Welfare board and hospital commissioners have made the following appointments for the ensuing year: Dr. M. J. McKenna, Grand Rapids, county surgeon; Drs. J. H. Bender, Bigfork; Dr. G. A. Miners, Deer River; Dr. G. M. Erskine, Grand Rapids; Dr. E. K. Rowles, Coleraine; Dr. J. C. Fueling, Bovey; Dr. E. T. Plowman, Marble; and Dr. E. H. Loofbourrow, Keewatin, as county physicians for their respective localities; Dr. C. E. Sisler, Grand Rapids, as house physician for the county home and infirmary. Appointed to act on the board of examiners for the University Hospital are Dr. M. J. McKenna and Dr. C. E. Sisler.

The fiftieth annual Founders' Day dinner of the Psi chapter of Alpha Kappa Kappa was held at the Kahler Hotel in Rochester, Minnesota, on Saturday, April 22. Drs. A. E. Brown, chairman, E. A. Addington, W. F. Braasch, M. W. Comfort, V. S. Counseller, E. J. Kepler, J. S. Lundy, H. W. Meyerding, L. W. Pollock, M. C. Piper, Waltman Walters, and H. W. Woltman were members of the committee in charge which arranged for the all-day program preceding the banquet. In the morning, clinics were held in various hospitals of the city. A noon luncheon followed at the Mayo Foundation House, with the initiation of thirteen new members of the chapter. Clinics were resumed in the afternoon. Undergraduate members of the fraternity from the University of Minnesota attended in a body. Many physicians from Saint Paul and Minneapolis drove to Rochester for the occasion. Attendance was estimated at approximately 125.

In Memoriam

Finley C. Spates 1855-1939

D. R. FINLEY C. SPATES, a practicing physician of Saint Paul for fifty-two years, passed away February 27, 1939, at the age of eighty-three.

Dr. Spates was born near Red Wing, Minnesota, December 27, 1855, and spent his boyhood on a farm. He studied at Carleton College, Northfield, and received his medical training at Hahnemann Medical College in Chicago, graduating in 1883.

Upon graduation Dr. Spates began practice at Milbank, South Dakota, but in May, 1884, moved to Saint Paul. On September 29, 1883, he was married to Carrie Belle Williams of Saint Paul. A resident of Dayton's Bluff, he served the Bluff area and outlying communities in Hazel Park, North Saint Paul, Highwood and Newport for fifty-two years. His was the sacrificial life which characterized the old-time family physician in the days when the horse and buggy were the means of travel. During his lifetime he did much obstetrical work.

Dr. Spates was a charter member of the East Presbyterian Church and was active in the Arlington Hills East Presbyterian Church with which it merged. He was a staunch Christian and carried out Christian principles in his medical practice as well as in his social and home life. He loved children and they constituted a large portion of his patients. He liked people and in turn was loved by his patients.

Dr. Spates is survived by his widow, two sons, Dr. Kenneth C. Spates of Saint Paul and Leland W. Spates of Van Nuys, California; two daughters, Mrs. R. L. Faulkner and Eleanor F. Spates of Saint Paul.

Thomas Lowe

1858-1939

D. R. THOMAS LOWE, of Pipestone, Minnesota, for several years a member of the State House of Representatives, died, following an attack of influenza, March 12, 1939, at the West Side Hospital, Saint Paul.

Dr. Lowe was born at La Chute, Quebec, Canada, November 8, 1858. When he was thirteen years of age, his family moved to the United States and located in Bremer County, Iowa. In 1877, the family moved to Murray County, where the father and three of his sons took up homesteads.

After attending school in Decorah, Iowa, Dr. Lowe

taught school for a few years and then attended Hahnemann Medical College in Chicago, from which he was graduated in 1885. Upon receiving his medical degree, he returned to Murray County to practice, opening an office at Slayton. It was here that he met Sadie Southwell, who became his wife, on June 18, 1887. In 1904, the Lowes moved to Pipestone, where Dr. Lowe has since practiced.

In 1937, Dr. and Mrs. Lowe celebrated their golden wedding anniversary.

Throughout his long life, Dr. Lowe took an active interest in local and state politics. He was five times mayor of Pipestone. He served as commissioner of the Southwestern Minnesota Tuberculosis Sanatorium, and served on the Minnesota State Board of Medical Examiners for twenty years. He was a member of the Masonic, Woodman, Yeoman, and Knights of Pythias orders. When taken fatally ill, he was serving his second term in the House of Representatives and was very active in spite of his advanced age.

Doctor Lowe was the seat-mate of the only other physician in the House, Wm. J. Eklund, of Duluth. Dr. Lowe was chairman of the Committee of Public Health and Hospitals and represented his county on the important Appropriations Committee. Always fair and considerate, he was loved and respected by all members of the House. His clear thinking and ability came from his long service in the practice of medicine.

While actively engaged in the above-named organizations, he yet found time to take several postgraduate courses in New York; at one time serve as president of his local society, the Southwestern Minnesota Medical Society; and hold memberships in the Minnesota State and American Medical Associations.

Surviving Dr. Lowe are Mrs. Lowe and four children: Mrs. Raymond Hughes of Mankato; Margaret of Pipestone; William of Saint Paul; and Duncan of Weslaco, Texas.

MEDICAL BROADCAST FOR MAY

The Minnesota State Medical Association Morning Health Service

The Minnesota State Medical Association broadcasts weekly at 11:00 o'clock every Saturday morning over Station WCCO, Minneapolis (810 kilocycles or 370.2 meters) and Station WLB, University of Minnesota (760 kilocycles or 395 meters).

Speaker: William A. O'Brien, M.D., Associate Professor of Pathology and Preventive Medicine, Medical School, University of Minnesota. The program for the month will be as follows:

May 6-Prenatal Care

May 13-First Year of Life

May 20-Prematurity

May 27--Prenatal Care of Teeth

Eighty-sixth Annual Session

May 31, June 1 and 2, 1939

Minneapolis, Minnesota

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Section on Medicine

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General Chairman-A. E. CARDLE

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F. J. KUCEBA, D. A. MACDONALD, H. F. WAHLQUIST
COMMERCIAI EXHIBITS.—T. H. SWERTSER, RUTH BOYNTON, W. R.
JONES, E. J. LILLEHEI, W. G. SCHAEFER, NORA WINTHER
GOIS—H. M. LEE, A. E. BENJAMIN, L. R. BOIES, R. R. CRANMER, L. O. DOYLE, E. G. NYLANDER
HOTEI RESERVATIONS—H. W. CHRISTIANSON, F. G. BENN, E. J.
BORGESON, H. E. HOFFERT, F. B. MACH, O. F. ROBBINS
HOUSE ATTAINGEMENTS.—C. C. KENNEDY, A. N. BESSESEN, JR.,
C. O. HANSEN, A. B. JOHNSON, M. E. KNAPF, J. T. LAPIERRE,
J. H. TAYLOR

Public Relations—Gilbert Cottam, H. S. Diehl, F. E. Harrington, A. J. Herbolsheimer, F. A. Olson, T. W. Weum, S. M. White

Reunions—H. G. Scott, S. L. Arey, H. G. Benjamin, Reuben Erickson, W. A. Farsler, R. R. Knight Scientific Exhibits—C. A. McKinlay, P. A. Anderson, R. P. Caron, T. J. Kinsella, M. C. Pfunder

Announcements

Luncheons.—Twenty Round Table Luncheons have been arranged at the Hotel Curtis for this meeting, ten on Wednesday, May 31, and ten on Thursday, June 1. List of subjects and leaders for these luncheons have been sent to all members. Tickets must be purchased in advance for these luncheons. Attendance at each luncheon is limited to 20 and late comers will be accommodated according to their choice if limits have not already been reached. Price of luncheon tickets, \$1.00.

Public Health Exposition.—The first Public Health Exposition ever sponsored by the Minnesota State Medical Association will open in the Auditorium basement Wednesday, May 31, and close Saturday, June 3. Admission will be by ticket but without entrance fee.

Hours: 10 a.m. to 10 p.m. Special tours have been arranged during the day for the Minneapolis school children. Public Health lectures and moving pictures on popular subjects are scheduled each afternoon and evening. The Minnesota Department of Health, the Minneapolis City Health Department, the University of Minnesota and other official and voluntary welfare

agencies are coöperating with the Minnesota State Medical Association in this Exposition. Every physi-cian is urged to view this Exposition as well as the Scientific and Technical Exhibits on the floor above.

Annual Banquet.—The annual dinner for members and their wives will be held in the Auditorium, Thursday evening, June 1, at 7:30 p.m. Governor Harold E. Stassen will give the banquet address. Entertainment arranged by the Hennepin County Medical Society will follow the dinner.

The Southern Minnesota Medical Association will present a medal, following its annual custom, to the individual physician who presents the best scientific exhibit at this meeting. Judges will be selected from among distinguished out-of-state visitors. The award will be made at the Annual Banquet at the Hotel Curtis Thursday evening.

Golf Tournament.—The annual Golf Tournament will begin Friday at 1 p.m. at the Interlachen Country Club. Registration for the tournament should be made at the Registration Desk. Entrants may make up their own foursomes or apply to the Chairman, H. M. Lee, 1427 Medical Arts Building, Minneapolis, for partners. Attractive prizes have been donated for the winners.

Fracture Dinner.—One representative from each county and district society has been invited to attend a dinner at 6:30 p.m. Wednesday for the purpose of crganizing fracture committees in each component medical society in the state. Charles L, Scudder of Boston will talk on "Duties of a Local Fracture Committee."

Fracture Meeting 8 P. M.-Following the dinner, Dr. Scudder will address a meeting in the East Room of the Hotel Curtis on "Fractures as a State Medical Association Problem." Open to all physicians.

The Minnesota Radiological Society will give a dinner at 6:30 p.m. Wednesday, May 31, at the Hotel Nicollet in honor of W. Edward Chamberlain of Philadelphia. Dr. Chamberlain will give the Russell D. Car-man Memorial Lecture at 4 p.m. Wednesday.

The Trudeau Society will hold a dinner meeting Wednesday, May 31, 6:30 p.m. at the Hotel Nicollet. Dr. Robert G. Bloch, Chicago, whose appearance on the Thursday afternoon program is sponsored by the society, will be the principal speaker.

An American College of Surgeons breakfast will be held Friday morning at 7:30 a.m. at the Hotel Curtis. Members from Minnesota and adjacent states are invited to attend. Dr. Malcolm T. MacEachern, Chicago, Associate Director of the American College of Surgeons, will speak.

Visiting Speakers

ROCK SLEYSTER, Wauwatosa President-elect of the American Medical Association, Medical Director Milwaukee Sanitarium.

Andrew C. Ivy, Chicago, Nathan Smith Davis Professor of Physiology and Pharmacology. Head of the Division at the Medical School of Northwestern University. Consultant Passavant Hospital, Chicago. Sponsored by the Northern Minnesota Medical Associa-

EIGHTY-SIXTH ANNUAL SESSION

JOSEPH STOKES, Jr., Philadelphia, Associate Professor of Pediatrics, University of Pennsylvania School of Medicine. Sponsored by the Northwestern Pediatric Society

W. EDWARD CHAMBERLAIN, Philadelphia, Professor Radiology and Roentgenology, Temple University School of Medicine. Sponsored by the Minnesota Radiological Society. Dr. Chamberlain will deliver the annual Russell D. Carman Memorial Lecture.

CHARLES L. SCUDDER, Boston, Consulting Surgeon to the Massachusetts General Hospital. Formerly Assistant Professor of Surgery, Harvard Medical School. EVERETT D. PLASS, Iowa City, Professor of Obstetrics

and Gynecology, State University of Iowa, College of Medicine.

THOMAS FRANCIS, JR., New York, Professor of Bacteriology, New York University, College of Medicine. Sponsored by the Minnesota Society of Internal Medi-

ROBERT G. BLOCH, Chicago, Associate Professor Medicine, School of Medical Division of Biological Sciences, University of Chicago. Sponsored by the Trudeau Society.

F. W. JACKSON, Winnipeg, Deputy Minister Health and Public Welfare of Manitoba.

MONSIGNOR MAURICE F. GRIFFIN, Cleveland, Catholic

Hospital Association.

MR. J. G. Crownhart, Madison, Executive Secretary
of the State Medical Society of Wisconsin.

THE HONORABLE HENRIK SHIPSTEAD, United States

Senator. ASSISTANT SURGEON GENERAL C. E. WALLER, Washington, United States Public Health Service.

BUSINESS PROGRAM

Hotel Curtis

Tuesday, May 30

4:00 P.M.—Council
Wednesday, May 31
7:30 A.M.—Council
Thursday, June 1
7:30 A.M.—Council
Report of Secretary

SCIENTIFIC PROGRAM

Wednesday, May 31

Morning Session-8:30 A. M.

Scientific Cinema Scaleniotomy for Cervical Rib Alton Ochsner, New Orleans Announcements George Earl, St. Paul Complete Fracture Demonstrations, Patients, Histories,

Slides and X-rays
O. W. Yoerg, Minneapolis
V. P. Hauser, St. Paul

H. W. Meyerding, Rochester Scientific Cinema

Scientific Cinema
Some Practical Pointers on the Treatment of IntraCapsular Fractures of the Neck of the Femur
W. D. White, Minneapolis
E. C. Henrikson, Minneapolis
Bile Salt Therapy in Gall Bladder Disease
Andrew C. Ivy, Chicago

Headaches H. W. Woltman, Rochester Treatment of the Mental Defective E. J. Engberg, Faribault

Round Table Luncheons-12:15 P. M.

Newer Drugs Leader—R. N. Bieter, University of Minnesota Surgery of the Stomach (Indications for Various Procedures) Leader-W. C. Carroll, St. Paul

Surgery of the Small Bowel

Leader-O. H. Wangensteen, University of Minnesota Treatment of Sterility Leader—C. J. Ehrenberg, Minneapolis

Operative Treatment of Fractures Leader-Charles L. Scudder, Boston Peptic Ulcer

Leader-Andrew C. Ivy, Chicago

Allergy Leader-R. V. Ellis, University of Minnesota Methods of Immunization Against Acute, Contagious and Infectious Diseases Leader-Joseph Stokes, Jr., Philadelphia Treatment of Medical Emergencies Leader—H. E. Richardson, St. Paul Roentgenography of the Chest Leader—W. Edward Chamberlain, Philadelphia

Afternoon Session-1:30 P. M.

Scientific Cinema Metrazol Treatment for Psychoses G. N. Ruhberg, St. Paul Treatment of Mycotic Dermatitis H. E. Michelson, Minneapolis

Treatment of Atopic Dermatitis E. M. Rusten, Minneapolis

Diagnosis and Treatment of Hemorrhagic Diathesis C. H. Watkins, Rochester Studies of Certain Respiratory Infections of Virus Ori-

Joseph Stokes, Jr., Philadelphia Scientific Cinema

Advances in Brain and Cord Surgery A. W. Adson, Rochester Russell D. Carman Memorial Lecture

Low Back Pain W. Edward Chamberlain, Philadelphia Introduction: W. H. Ude, Minneapolis

Evening Session-8:00 P. M.

Fracture Meeting Presiding Officer, F. J. Elias, Duluth, Chairman Fracture Committee

Fractures as a State Medical Association Problem Charles L. Scudder, Boston

Thursday, June 1

Morning Session-8:30 A. M.

Scientific Cinema Inlying Graft for Hypospadias V. S. Counseller, Rochester Causes of Uterine Bleeding
J. L. McKelvey, University of Minnesota

Pelvic Pain W. A. Coventry, Duluth Adenomyomata

W. G. Benjamin, Pipestone Treatment of Vaginal Discharges Everett D. Plass, Iowa City

EIGHTY-SIXTH ANNUAL SESSION

Scientific Cinema Fascia Transplant in Post-Operative Hernia

Hamlin Mattson, Minneapolis Diagnosis of Virus Diseases

Thomas Francis, Jr., New York

Carcinoma of the Uterine Cervix H. H. Bowing, Rochester

The Present Status of Trans-Urethral Resectionists: Competent and Otherwise

F. E. B. Foley, St. Paul

Round Table Luncheons-12:15 P. M.

Traumatic Surgery Leader-F. J. Elias, Duluth

Toxemias of Pregnancy Leader—Everett D. Plass, Iowa City

Respiratory Diseases Leader—Thomas Francis, Jr., New York

Contagious Diseases Leader—C. A. Stewart, Minneapolis

Peripheral Vascular Disease Leader—B. T. Horton, Rochester

Surgery of the Gall Bladder Leader-J. M. Hayes, Minneapolis

Surgical Procedures in Malignancy of the Colon Leader-C. F. Dixon, Rochester

Induction of Labor

Leader-J. R. Manley, Duluth

Fracture of the Hip

Leader-M. S. Henderson, Rochester

Treatment of Cataract Leader—J. S. Reynolds, Minneapolis

Afternoon Session-1:30 P. M.

Scientific Cinema

Esophagoscopy L. R. Boies, Minneapolis

Recurring Thyrotoxicosis after Thyroidectomy O. J. Hagen, Moorhead

Dysphagia

N. Logan Leven, St. Paul Perforating Peptic Ulcer R. H. Wilson, Winona

Injuries of Eyes
D. L. Tilderquist, Duluth

Deformities of the Face Corrected by Plastic Surgery G. B. New, Rochester

Scientific Cinema

Pathologic Physiology of the Common Bile Duct
Waltman Walters, Rochester
Unsuspected Pulmonary Tuberculosis
Robert G. Bloch, Chicago
Surgery of Pulmonary Tuberculosis: Indications and

H. A. Carlson, Ah-Gwah-Ching

Male Sex Hormones M. H. Hoffman, St. Paul

Installation of Officers Presiding: George Earl, President

Report of the Secretary B. B. Souster, St. Paul

> Evening Session-7:30 P. M. ANNUAL BANQUET, AUDITORIUM

Toastmaster: George Earl

Introduction of Mrs. A. C. Baker, Fergus Falls, President, Women's Auxiliary Presentation of Southern Minnesota Medical Associa-

tion Medal Address: The Honorable Harold E. Stassen, Governor of the State of Minnesota

Floor Show

Friday, June 2
CONFERENCE ON MEDICAL PROBLEMS IN MINNESOTA Morning Session-8:30 A. M.

Scientific Cinema

Treatment of Burns Grover C. Penberthy, Detroit

Keeping America Healthy
Asst. Surgeon General C. E. Waller, Washington

Medical Care and its Distribution in Canada F. W. Jackson, Winnipeg Scientific Cinema

Standard Obstetrical Routine

Lyle G. McNeile and Donald G. Tollefson, Los Angeles County Hospital

Personal Observations on Medical Plans in Europe Mr. J. G. Crownhart, Madison, Wis. Health of the People of Minnesota

W. A. O'Brien, University of Minnesota Our National Investment in Health Monsignor Maurice F. Griffin, Cleveland

Afternoon Session-1:30 P. M.

Scientific Cinema

Carcinoma of the Breast: Radical Amputation
S. W. Harrington, Rochester

Health and the American Standard of Living

F. S. Chapin, University of Minnesota Minnesota Medical Legislation

The Honorable J. A. A. Burnquist, St. Paul The Doctor and His Patient

George Earl, St. Paul

Professional Service and the Public Trust The Honorable Henrik Shipstead, U. S. Senate

PICROTOXIN TREATMENT OF BARBITURATE INTOXICATION

(Continued from Page 310)

Conclusions

1. Animal experimentation and clinical trial have established some justification for the cautious use of picrotoxin in barbiturate poisoning.

2. In the presence of a known case of barbiturate intoxication, picrotoxin may be safely administered intravenously at the rate of 1 mg. per minute, for a total dosage of 9 mg. to 12 mg. at intervals of one-half hour to four hours.

3. The case here reported showed the first signs of return of consciousness when the "barbiturate equiva-

lent" of picrotoxin had been administered.

4. The customary supportive measures must be carried out while treating barbiturate intoxication with picrotoxin and in addition each case must be observed closely and dosage of picrotoxin gauged according to clinical signs and response of the individual case.

References

References

1. American Medical Association: Present Status of Picrotoxin in poisoning by the barbiturates; Report of The Council on Pharmacy and Chemistry. Jour. Am. Med. Assn., 112:431-33, (Feb. 4) 1939.

2. Bleckwenn, W. J., and Masten, Mabel G.: The antidotal treatment of barbiturate intoxication. Jour. Am. Med. Assn., 111:504-506, (Aug. 6) 1938.

3. Kohn, Richard, Platt, S. S., and Saltman, S. Y.: The picrotoxin barbiturate antagonism. Jour. Am. Med. Assn., 111:387-390. (July 30) 1938.

4. Maloney, A. H., Fitch, R. H., and Tatum, A. L.: Picrotoxin as an antidote in acute poisoning by the shorter acting barbiturates. Jour. Pharmacol. and Exper. Therap., 41:465-482, (April) 1931.

5. Maloney, A. H., and Tatum, A. L.: Picrotoxin as an antidote in acute poisoning by the longer acting barbiturates. Jour. Pharmacol. and Exper. Therap., 44:337-352, (March) 1932.

6. Murphy, William S., Connerty, Harold V., Connolly, Aloysius J., and Koppanyi, Theodore: Barbiturate poisoning treated with picrotoxin. Jour. Lab. and Clin. Med., 22: 350-356, (Jan.) 1937.

REPORTS and ANNOUNCEMENTS

FIELD CLINICS FOR CRIPPLED CHILDREN

Orthopedic surgeons from the Minnesota-Dakota Orthopedic Club are coöperating with the Division of Services for Crippled Children of the State Board of Control by serving again this year as orthopedic consultants at the field clinics for crippled children which are conducted annually by the Division. The first clinic of the spring series was held April 15 in St. Cloud with Drs. E. T. Evans and M. O. Henry, both of Minneapolis, as examining orthopedic surgeons. Drs. J. F. Pohl and J. H. Moe, also of Minneapolis, were in charge of the Morris Clinic, which was held April 22. The schedule for the remaining five clinics follows:

Willmar Clinic, April 29-Dr. V. L. Hart, Minneapolis; Mayo Clinic orthopedic surgeon.

Crookston Clinic, May 13.—Dr. G. A. Williamson, Saint Paul; Dr. J. R. Kuth, Duluth.

Austin Clinic, May 20-Dr. C. C. Chatterton, Saint Paul; Mayo Clinic orthopedic surgeon,

Detroit Lakes Clinic, June 3—Dr. G. A. Williamson, Minneapolis; Dr. Wm. H. Von der Weyer, Saint Paul.
Aitkin Clinic, June 10—Dr. S. W. Shimonek, Saint Paul; Dr. M. H. Tibbetts, Duluth.

The purposes of field clinics for physically handicapped children in the state is to find new cases, to follow up old cases, to emphasize preventive health education, and to provide consultation services for the local family physician for his indigent crippled children patients. All physically handicapped persons under twenty-one years of age who cannot provide private medical care are eligible upon presenting a letter of referral from their family physician.

Coöperating also with the Division of Services for Crippled Children is the Division of Vocational Rehabilitation of the State Department of Education, which sends an expert from its staff to each clinic to give vocational guidance, and the Minnesota Public Health Association, which coöperates with the preliminary educational program.

RED RIVER VALLEY SOCIETY

Members of the Red River Valley Medical Society and their wives, numbering fifty-five, including a delegation from Thief River Falls, assembled at the Hotel Crookston Tuesday night for the annual dinner meeting of the society, followed by separate business sessions for the physicians and their auxiliary.

The meeting for the auxiliary held at the home of Mrs. G. A. Morley, was the annual business session, with election of officers and preparation of the group's report for the state medical auxiliary meeting next month. Mrs. S. H. Stuurmans of Erskine was named president of the auxiliary, succeeding Mrs. Baldwin Borreson, with Mrs. H. M. Blegen of Warren first

vice president; Mrs. G. W. Hohl of Ada, second vice president; Mrs. D. V. Boardman of Twin Valley, recording secretary; Mrs. H. H. Hedemark of Thief River Falls, corresponding secretary; and Mrs. C. L. Oppegaard of Crookston, treasurer.

The joint session of the physicians and their wives was featured by an address by Mrs. Virginia Liebeler, state director of the Minnesota Hospital Service Association.

After members of the auxiliary had adjourned to the home of Mrs. Morley, physicians heard an address by A. W. Aamodt, state supervisor for the Farm Security Administration, on the medical problem presented by the low income groups, operating on borrowed government capital and under the supervision of the FSA.

The meeting for physicians was concluded with the showing of three scientific films.

MINNESOTA HOSPITAL ASSOCIATION

The sixteenth annual meeting of the Minnesota Hospital Association will be held Thursday, Friday and Saturday, May 25, 26 and 27, 1939, in the St. Paul Hotel, St. Paul, Minnesota. Dr. Peter Ward, Saint Paul, president of the association, will preside. Thursday morning will be devoted to registration and a meeting of the Board of Directors. The regular business session will occupy the Thursday afternoon meeting, to be followed at 6:00 P. M. with a buffet supper at St. Joseph's Hospital.

Scientific papers presented by leading hospital authorities covering the different departments in a well organized hospital will occupy the session Friday morning. A noon luncheon at the Lowry Hotel will be addressed by B. W. Caldwell, M.D., Executive Secretary, American Hospital Association; M. T. McEachern, M.D., Associate Director, American College of Surgeons and President, International Hospital Association; and R. C. Buerki, M.D., President, American College of Hospital Directors.

Friday afternoon the following allied organizations will hold sessions: Minnesota Association of Nurse Anesthetists, Minnesota Dietetic Association, Minnesota Chapter—National Executive Housekeepers' Association, Minnesota Association of Hospital, Medical and Institution Librarians, Minnesota Society of Medical Technologists, Minnesota Occupational Therapy Association, Minnesota Chapter American Physiotherapy Association, Minnesota Record Librarians' Association. A General Session at 3:30 P. M. will consist of a round table discussion led by R. C. Buerki, M.D.

At the annual banquet to be held Friday evening the speakers will include Basil McLean, M.D., Superintendent, Strong Memorial Hospital, Rochester, New York; George Earl, M.D., President Minnesota State Medical Association; and Honorable Harold E. Stassen. Governor of Minnesota.

The meeting Saturday morning will include addresses on various phases of hospitalization to be followed by the final business session. A golf tournament at the White Bear Yacht Club will conclude the program in the afternoon.

WOMEN'S AUXILIARY

Mrs. W. B. Roberts, Minneapolis, President
Mrs. E. V. Goltz, 2259 Summit Avenue, Saint Paul, Publicity Chairman

The Annual State Convention which will be held in Minneapolis May 31 to June 2, inclusive, should draw many members from the various county auxiliaries. Registration will open May 30 from 4 to 6 p. m. at the Curtis Hotel and the following morning at 9 a.m. at the Curtis Hotel. Wednesday morning, May 31, the pre-convention executive board meeting will be held at the Leamington Hotel with a luncheon following for members of the board only. From 3 to 5 p. m. that day the members of the Hennepin County Auxiliary will entertain all auxiliary members at a tea an the Hennepin County rooms on the 20th floor of the Medical Arts Building. The evening will be devoted to the scientific and allied health displays in the Municipal Auditorium. Thursday, June 1, the annual State Auxiliary meeting will be held at 10 a. m. at the Interlachen Country Club. Those wishing to attend this meeting will find cars awaiting them at the Curtis Hotel at 9:15. A luncheon will be held at Interlachen following the meeting and cars will start from the Curtis Hotel at 12 o'clock noon for those who wish to attend the luncheon and not the annual meeting in the morning. At 6:30 p. m. members of the auxiliary will meet with the doctors at dinner at the Leamington Hotel. Friday, June 2, a sightseeing trip with a visit to the Sibley House at Mendota where luncheon will be served will conclude the convention program. Cars will leave the Curtis Hotel at 11 a. m. and will return guests to the hotel after luncheon. Hennepin County extends a very cordial invitation to all members to attend and it is hoped that there will be a large attendance.

Our state president, Mrs. Wm. B. Roberts, presided at the recent meeting of the Women's Field Army of the American Society for the Control of Cancer, held in Saint Paul. "Civilization Against Cancer" was the theme of the meeting. The Winona Auxiliary, of which Mrs. C. P. Robbins is president, received recognition for their contribution to the fund for Control of Cancer at this meeting. This was the project of the Winona Auxiliary for their activity this year.

The seventeenth annual convention of the national Auxiliary will be held at the Hotel Chase, St. Louis, Missouri, May 15 to 19 inclusive. Registration will be held from 10 a. m. to 4 p. m. Sunday, May 14, with a tea in the afternoon for the national board in honor of Mrs. Charles C. Tomlinson, president. Monday, May 15, the national board meeting will be held in the Empire Room, Hotel Chase, at 9 a. m., and from 1:30 to 4:45 p. m. there will be a tea at the private gardens of St. Louis County. Tuesday, May 16, the formal opening of the convention and general session will be held in the Empire room of the Hotel Chase from 9 a. m. to 12 noon with luncheon at the St. Louis Woman's Club at 12:30, followed by tours with a tea

at the St. Louis University Woman's Club at 4 p. m. The opening meeting of the American Medical Association will be at 8 p. m. in the Municipal Auditorium, Wednesday, May 17, there will be a general session at 9 a. m. at the Chase Hotel with auxiliary luncheon at 1 p. m. at the Chase Club, followed by exhibits and music and conferences. A reception will be held that night for all visiting ladies with a motion picture revue of United States Seal fisheries and a fur fashion show. Thursday, May 18, the post-convention executive committee meeting will be held at 9 a. m. followed by the post-convention Board of Directors meeting. From 12:30 to 3:30 in the afternoon there will be a Mississippi steamboat trip for men and women and at 7 p. m. the annual "Bring Your Husband" dinner at the Chase Hotel, followed by a reception in honor of the president of the American Medical Association at the Hotel Jefferson. A Woman's Golf Round and Blind Bogey with trophies and prizes will be the feature for Friday, May 19, the closing day. It is hoped that Minnesota will be well represented at the annual national meeting.

Mrs. Leo Crafts of the Hennepin County Auxiliary passed away April 13, in Minneapolis. Her home was at 610 Fifth Street S. E. Mrs. Crafts was prominently identified with Auxiliary affairs, having served as president of the Hennepin County Auxiliary, and was a member of the Revision Committee of the State Auxiliary at the time of her death. She had spent the past fifty years as a resident of Minneapolis and was an instructor in Art at the State University from 1889 to 1901. She studied art in the East under a group of well known teachers including Edmund Tarbel. Joseph De Camp and Roda Holman Nichols, and she was a member of the Fine Arts Club of Boston, Fine Arts of Minneapolis, Women's Club and a member of the board of directors of the Y.W.C.A. and Travelers Aid. Many members of the auxiliary will remember the lovely poster she completed for the Hennepin County Auxiliary. She was an extensive traveler, having spent much time in Europe. Sincerest sympathy is extended to her family.

The Ramsey County Auxiliary recently voted to give \$100 to a fund to provide an Infantile Paralysis Center in Ramsey County. The annual reciprocity tea was given Monday, April 27, in the Ramsey County Library rooms. Dr. George Earl spoke on "Phases of Socialized Medicine." Mrs. Donald Bacon read the play "Kiss the Boys Good-bye." Invitations had been extended to various women's organizations to attend. Mrs. Wm. B. Roberts, State President, was a guest. Tea was served to seventy guests following the program.

BOOK REVIEWS

Books listed here become the property of the Ramsey, Hennepin and St. Louis County Medical libraries when reviewed. Members, however, are urged to write reviews of any or every recent book which may be of interest to physicians.

YOUR CHEST SHOULD BE FLAT. F. A. Weisman, M.D., F.A.C.P. Assistant Professor of Medicine, University of Minnesota; Member of Consulting Staff, Glen Lake Sanatorium, Oak Terrace, Minnesota; Member of Staff of St. Andrew's and St. Mary's Hospitals, Minneapolis. 145 pages. Illus. Price, cloth, \$2.00. Philadelphia: J. B. Lippincott & Co., 1939.

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In a small volume Dr. Weisman has presented the results of his studies of thoracic indices of 20,000 school children as well as smaller groups of tuberculous individuals and preventorium children. From this material he has arrived at a normal thoracic index, that is, the ratio of the antero-posterior to the lateral dimensions of the chest through infancy, childhood and adult life. He has shown that the individual who on casual examination appears to be flat chested is very likely actually to be deep chested, that is, to have a high thoracic index, and that the

appearance is due to postural differences rather than to actual flattening of the chest. While Dr. Weisman has found that the thoracic indices of young adults having tuberculosis are higher than those of similar groups of healthy individuals, he also has very clearly shown that this index is an indication of malnutrition and under-development. His study of the school children in Minneapolis shows a higher thoracic index in the children coming from poorer districts than in those coming from the more well-to-do parts of the city.

It is a recognized fact that prevalence of open tuberculosis is greater in neighborhoods of lower economic strata. It seems to me that Dr. Weisman's thesis, "that the deep chest makes better soil for tuberculosis," is based on the corollary that tuberculosis is more prevalent in the lower economic level, that malnutrition and under-development are more prevalent in the same strata and that the majority of individuals with deep chest, i.e., high thoracic indices, will come from such an environment. Therefore, the person with the deep chest is more apt to have tuberculosis. This book should be a valuable addition to the library of physicians, physical education directors, social service workers and teachers in emphasizing the problem of malnutrition and in presenting a simple method for indicating such condition.

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336

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	Number of Members. 31	
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	HENNEPIN COUNTY MEDICAL SOCIETY	
Re	gular meetings, first Monday each month except June, July, August and September Annual meeting, October Number of Members: 622	ing
President Reynolds, J. S. Minneapolis Secretary Daniel, L. M. Minneapolis Aagaard, G. N., Jr. Minneapolis Abramson, Milton. Minneapolis Adams, J. M. Minneapolis Alexander, H. A. Minneapolis Allen, H. W. Minneapolis Allison, R. G. Minneapolis Allison, R. G. Minneapolis Allison, R. G. Minneapolis Allison, R. G. Minneapolis Andersen, A. G. Minneapolis Andersen, S. C. Minneapolis Andersen, E. D. Minneapolis Anderson, E. D. Minneapolis Anderson, E. R. Minneapolis Anderson, F. J. Minneapolis Anderson, F. J. Minneapolis Anderson, F. J. Minneapolis Anderson, F. Minneapolis Anderson, F. Minneapolis Anderson, W. Minneapolis Anderson, W. Minneapolis Anderson, C. E. Minneapolis Anderson, W. Minneapolis Anderson, W. Minneapolis Anderson, C. E. Minneapolis Andreassen, E. C. Minneapolis Andreasen, E. C. Minneapolis Andreasen, M. Minneapolis Arey, S. L. Excelsior Arlander, C. E. Minneapolis Arling, L. S. Minneapolis Arnold, Anna W. Minneapolis Arnold, D. C. Minneapolis Arnold, D. C. Minneapolis Avridson, C. G. Minneapolis Aurand, W. H. Minneapolis Baker, A. B. Minneapolis Baker, A. B. Minneapolis Baker, Looe. Minneapolis Baker, E. L. Minneapolis Baker, J. P. Minneapolis Baker, J. P. Minneapolis Baker, S. H. Minneapolis Barber, J. P. Minneapolis Baker, S. H. Minneapolis Barson, Moses Minneapolis Bass, G. W. Minneapolis Bass, G. W. Minneapolis Bayard, H. F. Minneapolis Beckman, W. G. Minneapolis Beckman, W. G. Minneapolis Beckman, W. G. Minneapolis Bell, E. T. Minneapolis	Benesh, N. G Minneapolis Benjamin, A. E. Minneapolis Benjamin, A. E. Minneapolis Benjamin, H. G. Minneapolis Benjamin, H. G. Minneapolis Benn, F. G Minneapolis Berger, A. G. Minneapolis Berger, A. G. Minneapolis Berger, A. G. Minneapolis Berger, A. G. Minneapolis Berkwitz, N. J. Minneapolis Berman, Reuben Minneapolis Bessesen, A. N., Jr. Minneapolis Bessesen, W. A. Minneapolis Blake, James. Hopkins Blake, J. Hopkins Blake, J. Hopkins Blake, J. Minneapolis Bockman, M. W. H. Minneapolis Bockman, M. W. H. Minneapolis Bockman, E. J. Minneapolis Booth, A. E. Minneapolis Booth, A. E. Minneapolis Borgeson, E. J. Minneapolis Bornan, C. N. Minneapolis Borman, H. A. H. Minneapolis Borman, H. A. H. Minneapolis Bornoto, Ruth E. Minneapolis Bornoto, Ruth E. Minneapolis Bratrud, A. F. Minneapolis Bratrud, A. F. Minneapolis Bratrud, A. F. Minneapolis Brown, E. D. Paynesville Brusch, G. C. Minneapolis Brown, E. D. Paynesville Brusch, G. C. Minneapolis Bryant, F. L. Minneapolis Bulkley, Kenneth Minneapolis Bulkley, Kenneth Minneapolis Cabot, V. S. Minneapolis Cady, L. H. Minneapolis Cady, L. H. Minneapolis Campbell, L. M. Minneapolis Campbell, L. M. Minneapolis Campbell, C. Minneapolis Campbell, O. J. Minneapolis Carlson, Lawrence Minneapolis Carlson, L. T. Minneapolis Carlson, L. T. Minneapolis Carlson, L. T. Minneapolis Carlson, L. T. Minneapolis	Clark, H. S. Minneapolis Clay, L. B. Minneapolis Cohen, B. A. Minneapolis Cohen, S. S. Oak Terrace Condit, W. H. Minneapolis Cooperman, H. O. Minneapolis Corport, J. F. Minneapolis Corport, J. F. Minneapolis Corport, J. F. Minneapolis Cornica, A. D. Minneapolis Crammer, R. R. Minneapolis Cramston, R. W. St. Louis Park Creevy, C. D. Minneapolis Curtin, J. F. Minneapolis Curtin, J. F. Minneapolis Curtin, J. F. Minneapolis Cutts, George Minneapolis Cutts, R. E. Minneapolis Dahl, J. A. Minneapolis Dahl, J. A. Minneapolis Dahl, J. A. Minneapolis Daniel, D. H. Minneapolis Daniel, L. M. Minneapolis Daniel, L. M. Minneapolis Davis, J. C. Minneapolis Davis, J. C. Minneapolis Devereaux, T. J. Wayasta Diehl, H. S. Minneapolis Doering, R. E. Minneapolis Doering, R. E. Minneapolis Dorrica, R. I. Minneapolis Dorrica, R. I. Minneapolis Dorrica, R. I. Minneapolis Dorrica, R. E. Minneapolis Dorrica, R. E. Minneapolis Dorrica, R. E. Minneapolis Dorrica, R. I. Minneapolis Dorrica, R. E. Minneapolis Dorrica, R. E. Minneapolis Dorrica, R. E. Minneapolis Dorrica, R. E. Minneapolis Dorrica, R. Minneapolis Duryea, W. M. Minneapolis Duryea, W. M. Minneapolis Duryea, W. M. Minneapolis Doverak, B. A. Minneapolis Doverak, B. A. Minneapolis Doversky, S. D. Minneapolis Doversky, S. D. Minneapolis
Bell, E. T. Minneapolis Belzer, M. S. Minneapolis	Chesley, A. J Minneapolis Christenson, G. R Minneapolis Christianson, H. W Minneapolis	Eckhardt, C. L
May 1939		343

Eich, MatthewMinneapolis
Eich, Matthew
Engelhart, P. CMinneapolis Engstrand, O. JMinneapolis
Fedmann C A Minneapolis
T : Winnespolie
Evans, E. TMinneapolis
Fahr. G. E
Fansler, W. A
Fenger, E. P. KOak Terrace
Fink. L. W
Timb Winneapolis
Fitzgerald, D. F. Minneapolis Fjeldstad, C. A. Minneapolis Fleming, A. S. Minneapolis
Factor W W Minneapolis
Fowler, L. H. Minneapolis Fredericks, G. M. Minneapolis Friedell, Aaron Minneapolis
Friedell, AaronMinneapolis Fritzell, K. EMinneapolis
Fuller, Alice H
Funk, V. KOak Terrace
Cardner F T Minneapolis
Giere, E. O
Giessler P W
Gilles F. L
Girvin, R. B Minneapolis Golberg, M. L Minneapolis
Goldberg, I. M
Good H D
Gordon, P. E Minneapolis
Crimes Marian Minneapolis
Gronvall, P. R Minneapolis Gunderson, N. A Minneapolis
Gunlaugson, F. GMankato
Gushurst, E. G
Hacking F. H Minneapolis
Haggard, G. D. Minneapolis Hall, J. M. Minneapolis
Hallberg, C. AMinneapolis
Hamel, A. LMinneapolis Hamilton, A. SMinneapolis Hamlin, G. BMinneapolis
Hamlin, G. BMinneapolis Hammerstad, L. MMinneapolis
Hammond A I
Hansen, C. O. Minneapolis
Hansen, E. WMinneapolis
Hanson, H. J
Hanson, H. V
Hanson, W. A
Happe, L. J
Harrington, F. EMinneapolis
Hart, V. L
Hastings, D. RMinneapolis
Haverfield, Addie R Minneapolis
Hawkinson, R. P Minneapolis Hayes, A. T Minneapolis
Hayes, I. MMinneapolis
Head, D. P
Hedback, A. EMinneapolis
*Helk H H Minneapolis
Hendricks, E. JMinneapolis
Henrickson E. C Minneapolis
Herbolsheimer, A. J Minneapolis Herbst. R. F Minneapolis
Herman, A. L
Hiebert, J. PMinneapolis Higgins, J. HMinneapolis
Hill, Eleanor JMinneapolis Hirschfelder, A. DMinneapolis Hirschfield, F. RMinneapolis
Hill, Eleanor J. Minneapolis Hirschfelder, A. D. Minneapolis Hirschfeld, F. R. Minneapolis Hoaglund, A. W. Minneapolis Hobbs, C. A. Minneapolis Hobes, S. V. Minneapolis
Hodge, S. VMinneapolis
*Deceased

Hoffert, H. E	M	inneapolis
Hoffman D A	M	inneapolis
Holl, P. M	M	inneapolis
Holmberg, C. J	M	inneapolis
Holt, W. B	M	inneapolis
Holzapfel, F. C	M	linneapolis linneapolis
Houkom, Bjarne Hovland, M. L	M	linneapolis
Huenekens, E. J	M	linneapolis
Hultkrans, J. C	M	linneapolis
Hultkrans, R. E	M	linneapolis
Hurd, Annah	M	linneapolis
Hutchinson, C. J	N	linneapolis linneapolis
Hymes, Charles Hynes, J. E	M	linneapolis
Irvine, H. G		linneapolis
Jackson, C. M		linneapolis linneapolis
Jennings, Mary H Jensen, Harry		linneapolis
Jensen, M. J	M	linneapolis
Johnson, A. B	N	Inneapolis
Johnson, A. E		linneapolis
Johnson, E. W		linneapolis
Johnson, H. A Johnson, J. A	· · N	linneapolis linneapolis
Johnson, Julius	N	Inneapolis
Johnson, N. A		Inneapolis
Johnson, Norman	N	Inneapolis
Johnson, N. T		linneapolis
Johnson, R. A Johnson, R. E	N	linneapolis linneapolis
Johnson, S. M	N	Inneapolis
Johnson, Y. T	N	linneapolis
Jones, G. M		finneapolis
Jones, H. W		linneapolis
Jones, W. R Josewich, Alexander	N	finneapolis finneapolis
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Kalin, O. T Karlstrom, A. E	N	linneapolis linneapolis
Kelby, G. M	N	Inneapolis
Kennedy, C. C	N	Inneapolis
Kennedy, Jane F		finneapolis
Kerkhof, A. C		finneapolis
Kertesz, G		finneapolis
Kibbe, O. A King, E. A		finneapolis finneapolis
King, H. T		[inneapolis
Kinsella, T. J	3	finneapolis
Kistler, A. J		finneapolis
Kistler, C. M	5	Linneapolis Linneapolis
Knapp, M. E Knight, R. R		Inneapolis
Knight, R. T		finneapolis
Koepcke, G. M	A	dinneapolis
Koller, H. M	1	finneapolis
Koller, L. R Korchik, J. P		dinneapolis dinneapolis
Kucera, F. J		Hopkins
Kucera, W. J		dinneapolis.
Lajoie, J. M		dinneapolis
Lang, L. A		dinneapolis.
Lapierre, A. P	M	dinneapolis
Lapierre, C. A Lapierre, J. T		dinneapolis dinneapolis
Larsen, F. W		dinneapolis
Larson, C. M	1	Ainneapolis
Larson, L. M	1	dinneapolis
Larson, P. N	. Oa	k Terrace dinneapolis
La Vake, R. T		dinneapolis
Laymon, C. W	1	dinneapolis.
Lazar, H. L	1	Minneapolis
Leavitt, H. H		dinneapolis
Lebowske, J. A		dinneapolis
Leclercq, G. T. A Lee, H. M	. 1	dinneapolis dinneapolis
Leland, H. R	3	Ainneapolis
Lenz, O. A		dinneapolis
Leonard, L. J		dinneapolis
Leonard, Sam	T.	d inneapons
Lillehei, E. J Lind, C. J		dinneapolis
Lindgren, R. C	1	dinneapolis
]	Minneapolis
Linner, H. P Linton, W. B Lippman, E. S	1	unneapolis
Linoman F S		finneapolis
Lipschultz, Oscar	1	dinneapolis
Litchfield, J. T	3	dinneapolis
Litchfield, J. T. Litman, A. B. Litzenberg, J. C. Logefeil, R. C.	1	Minneapolis
Litzenberg, J. C	!	unneapolis
Long, Jesse		dinneapolis
Loomis, E. A	1	Minneapolis
Lufkin, N. H	1	Minneapolis
Lundblad, R. A Lundblad, S. W Lundgren, A. C]	Minneapolis
Lundblad, S. W Lundgren, A. C		dinneapolis
Lundquist, E. F		dinneapolis Minneapolis Minneapolis Minneapolis Minneapolis Minneapolis
Lundquist, E. F Lynch, M. J	1	Minneapolis

Lysne, HenryMinneapol Lysne, MyronMinneapol	15
MacDonald A F Minneseed	
MacDonald, D. AMinneapoi	is
*MacDonald, I. CMinneapol	is
Mach, F. B	is lis
Macnie, J. SMinneapo	is
Maeder, E. C	us
Mariette, E. S Oak Terra	ce
Mark, D. B	is
Marking, G. H Minneapo Martinson, C. J Wayza	
Matchan, G. K	118 4
Matthews Instite Minneano	lie.
Mattill, P. MOak Terra Mattson, HamlinMinneapo Maxeiner, S. RMinneapo	ce
Maxeiner, S. RMinneapo	lis
May, W. HMinneapo	lis
May, W. H. Minneapo McCann, E. J. Minneapo McCarthy, Donald Minneapo McCarthy, J. S. Minneapo McCartney, J. S. Minneapo	lis
McCartney, J. S Minneapo	lis
	lis
McGandy, R. F Minneapo	1:0
McGeary, G. E Minneano	lis
McInerny, M. WMinneapo McIntyre, GeorgeMinneapo	ils
	lis
McKinlay, C. AMinneapo	lis
McKinlay, C. A. Minneapo McKinley, J. C. Minneapo McKinney, F. S. Minneapo	lis
McPheeters, H. OMinneapo	lis
McQuarrie, IrvineMinneapo	lis
Meland, E. L Minneapo Merkert, C. E Minneapo	lis
Merkert, G. L	lis
Merrill, ElisabethMinneapo	lis
Meyer, E. LMinneapo Michael, J. CMinneapo	lis
Michel, H. H	lis
Michelson, H. EMinneapo	lis
Miller, H. E	lis
Milton, J. S	lis
Mitchell, E. C	nd
Moe, J. H	lis
Moir, W. W	lis
Monson, E. MMinneapo	lis
Moorhead, Martha B Minneapo Moren, Edward Minneapo	lis
Moriarty, Cecile R	lis
Morrison, A. W	lis
Morrison, Charlotte JMinneapo Morse, R. WMinneapo	lis
Morton, H. McI Vincentown, N.	J.
Murphy, E. P	lis
Myers, J. AMinneapo	lis
Neal, J. MMinneapo	lis
Neary, R. P	lis
Nelson, H. S	lis
Nelson, HarveyMinneapo	lis
Nelson, O. L. N	
Newhart, HoraceMinneapo	olis
Nordin, G. TMinneapo	lis
Nordland, MartinMinneapo Norris, E. HDetroit. Michig	an
Noth, H. W	lis
Nydahl, M. JMinneapo Nylander, E. GMinneapo	lis
Nystrom, Ruth	olis
Oberg, C. MMinneapo	olis
O'Brien, W. A	lis
O'Donnell, J. E. Minneapo Olsen, E. G. Minneapo Olson, A. C. Minneapo	lis
Olsen, E. G	lis
Olson, F. A	lis
Ulson, R. G Minneapo	1113
Oppen, E. GMinneapo	lis
Patterson, W. E	1115
Patterson, W. E Minneape Paulsen, E. L Minneape Pederson, R. M Minneape Pennington, Reuben. Minneape Pennard T. A. Minneape	lis
Pederson, R. M. Minneapo Pennington, Reuben Minneapo Peppard, T. A. Minneapo	lis
Pennard T A Minneapo	lis
Peppard, T. A	olis
Petersen, ThorvaldMinneapo	lis
	olis
Peterson, HenryMinneapo	
Peterson, H. O	olis
Peterson, H. O Minneapo	olis olis
Peterson, Henry Minneape Peterson, H. O. Minneape Peterson, H. W. Minneape Peterson, N. P. Minneape Peterson, O. H. Minneape Peterson, P. E. Minneape	olis olis olis olis
Peterson, O. HMinneape	olis olis olis

Pettit, Peytor Petrit P

C W Minnespolis	Schneider, J. P	Taylor, J. HMinneapolis
Pettit, C. WMinneapolis	Schottler M F Minneapolis	Thomas C F Minnespolis
Peyton, W. T. Minneapolis Pfunder, M. C. Minneapolis Phelps, K. A. Minneapolis Platou, E. S. Minneapolis Pohl, J. F. Minneapolis	Schultz P I	Ti-man C II Minneapolie
Plunder, M. C	Schuseler O F Minneapolis	Thomas, G. J
Phelps, A. Minneapolis	Schwartz, V. JMinneapolis	Thysell. D. M
Platou, E. S	Schwartz, Guetav Minneanolis	Thomas, G. H. Minneapolis Thomas, G. J. Minneapolis Thysell, D. M. Minneapolis Tingdale, A. C. Minneapolis
Pohl, J. F	Scott F H Minneapolis	
Pollard, D. W	Schwartz, Gustav Minneapolis Scott, F. H. Minneapolis Scott, H. G. Minneapolis	Tunstead, H. IMinneapolis
Pollock, D. K	Seachors Gilbert Minneapolis	Turnacliff, D. DMinneapolis
Polzak, J. A Minneapolis	Seham May Minneapolis	Tunstead, H. J
Poppe, F. H. Minneapolis	Seifert M H Excelsion	Tide W H Minneapolis
Pratt, F. J. Minneapolis	Selieskog S R Minneapolis	Ulrich H I. Minneapolis
Pohl, J. F. Minneapolis Pollard, D. W. Minneapolis Pollock, D. K. Minneapolis Polzak, J. A. Minneapolis Poppe, F. H. Minneapolis Pratt, F. J. Minneapolis Pratt, J. A. Minneapolis Preine, J. A. Minneapolis	Selleseth I F Minneapolis	Ude, W. H Minneapolis Ulrich, H. L Minneapolis Undine, C. A Minneapolis
Prim I A Minneapolis	Sessions, I. C	Vik, A. EMinneapolis
Prim, J. A Minneapolis Proshek, C. E Minneapolis	Scott, H. G Minneapolis Seashore, Gilbert Minneapolis Scham, Max Minneapolis Seifert, M. H Excelsior Seljeskog, S. R. Minneapolis Selleseth, I. F. Minneapolis Sessions, J. C Minneapolis Shaperman, Eva P. Minneapolis Shapiro, M. J Minneapolis Shapiro, M. J Minneapolis Siegmann, W. C. Minneapolis Siegmann, W. C. Minneapolis Siver, J. D. Minneapolis Simpson, E. D. Minneapolis Simpson, E. D. Minneapolis Sipperstein, D. Minneapolis	
	Shapiro, M. J	Wahlquist, H. F Minneapolis
Quello, R. O. BMinneapolis	Sharp, D. V	Walch, A. EMinneapolis Waldron, C. WMinneapolis
Quinby, T. FLake Wales, Florida Quist, H. WMinneapolis	Siegmann, W. CMinneapolis	Waldron, C. W
	Silver, J. D	Wall, C. RMinneapolis
Pasmussen R C Minneapolis	Simons, J. HMinneapolis	Wangensteen, O. HMinneapolis
Rasmussen, R. C Minneapolis Reed, C. A Minneapolis	Simpson, E. DMinneapolis	Wangensteen, O. H. Minneapolis Wanous, E. Minneapolis Ward, A. W. Minneapolis Ward, A. W. Minneapolis
Regnier, E. A Minneapolis	Siperstein, D. MMinneapolis	Ward, P. A
Rewbridge, A. GMinneapolis	Sivertsen, AndrewMound	Warham T T Minneapolis
Reynolds, I. SMinneapolis	Sivertsen, Ivar	Watnam, I. I Minneapolis
Rice, C. O	Simpson, E. M. Minneapolis Siperstein, D. M. Minneapolis Sivertsen, Andrew Mound Sivertsen, Ivar Minneapolis Skjold, A. C. Minneapolis Skjold, A. C. Minneapolis	Watson T A Minneapolis
Richardson, F. SMinneapolis	Sloan, Julius Minneapolis Smisek, F. M. Minneapolis Smith, A. E Minneapolis	Webb R C Minneapolis
Richdorf, L. F Minneapolis	Smisek, F. MMinneapons	Weisman, S. A
Rieke, W. WWayzata	Smith A M Minneapolis	Ward, P. A. Minneapolis Warham, T. T. Minneapolis Watson, C. J. Minneapolis Watson, J. A. Minneapolis Webb, R. C. Minneapolis Weisman, S. A. Minneapolis Wethall, A. G. Minneapolis
Rigler, L. G Minneapolis	Smith, A. MMinneapolis Smith, Archie MMinneapolis	Wetherby, Macnider,, Minneapolis
Regnier, E. A. Minneapolis Rewbridge, A. G. Minneapolis Reynolds, J. S. Minneapolis Rice, C. Minneapolis Richardson, F. S. Minneapolis Richdorf, L. F. Minneapolis Ricke, W. W. Wayzata Rigler, L. G. Minneapolis Risch, R. E. Minneapolis Risch, R. H. Minneapolis Risch, R. H. Minneapolis	Smith, H. R	Weum, T. WMinneapolis
Rishmiller, J. HMinneapolis	Smith N M Minneapolis	White, A. A
Rizer, R. 1	Soderlind R. T Minneapolis	White, S. M
Rishmiller, J. H. Minneapolis Rizer, R. I. Minneapolis Roan, C. M. Minneapolis Robb, E. F. Minneapolis Robbiss, Q. F. Minneapolis	Smith, H. R. Minneapolis Smith, N. M. Minneapolis Soderlind, R. T. Minneapolis Solhaug, S. B. Minneapolis Spano, J. P. Minneapolis Sperling, Louis Minneapolis Sperling, Louis Minneapolis Spratt, C. N. Minneapolis Stratt, C. N. Minneapolis Stabbins, T. L. Minneapolis Stelter, L. A. Minneapolis Stelter, L. A. Minneapolis Stelter, Minneapolis Stelter, Minneapolis Stelter, Minneapolis Stelter, Minneapolis	Wethall, A. G. Minneapolis Wetherby, Macnider Minneapolis Weum, T. W. Minneapolis White, A. A. Minneapolis White, S. M. Minneapolis White, W. D. Minneapolis Whitesell, L. A. Minneapolis Whitesell, L. Minneapolis
Robb, E. F Minneapolis	Spano, I. PMinneapolis	Whitesell, L. AMinneapolis
Roberts, T. S. Minneapolis Roberts, W. B. Minneapolis Roberts, W. B. Minneapolis Rochford, W. E. Minneapolis Rochford, W. E. Minneapolis Rodda, F. C. Minneapolis Rosen, Samuel Minneapolis	Sperling, Louis, Minneapolis	Wilcox, A. E. Minneapolis Wilcox, A. E. Minneapolis Wilder, K. W. Minneapolis Wilder, R. L. Minneapolis
Poherts W R Minneapolis	Spink, W. W	Wilcox, A. EMinneapolis
Pobitshek F. C. Minneapolis	Spratt, C. NMinneapolis	Wilder, K. W
Rochford W E Minneapolis	Stanford, C. EMinneapolis	Wilder, R. L
Rodda, F. CMinneapolis	Stebbins, T. LMinneapolis	Wilken, P. A
Rosen, Samuel	Stelter, L. AMinneapolis	Williams, RobertMinneapolis
Rosen, Samuel Minneapolis Rosenwald, R. M. Minneapolis Rucker, W. H. Minneapolis Rud, N. E. Minneapolis		Wines T W Minneapolis
Rucker, W. H Minneapolis	Stewart, C. AMinneapolis Stewart, R. IMinneapolis	Winer, L. H
Rud, N. EMinneapolis	Stewart, R. I	Witham C A Minneapolis
	Stomel, JosephMinneapolis	Wittich F W Minneapolis
Russeth, A. N Minneapolis Rusten, E. M Minneapolis	Strachauer, A. CMinneapolis	Wintner, Nora M. C. Minneapolis Witham, C. A. Minneapolis Wittich, F. W. Minneapolis Wohlrabe, A. Minneapolis Wohlrabe, C. F. Minneapolis Woodworth, Elizabeth Minneapolis Wickley C. B. Minneapolis
Rusten, E. MMinneapolis	Stromgren, D. TMinneapolis	Wohlrabe, C. F
Sadler, W. PMinneapolis	Strout, E. S	Woodworth, Elizabeth Minneapolis
St. Cyr, K. JOsseo	Strout, G. EMinneapolis	Wright, C. B
Salt. C. G	Sturre, I. R	Wright, C. B Minneapolis Wright, C. D Minneapolis Wright, F. R Minneapolis
Samuelson, SamuelMinneapolis	Sulliman P M Minneapolis	Wright, F. RMinneapolis
Sandt, K. E Minneapolis	Sullivan, R. R Minneapolis	Wright, S. G. Minneapolis Wright, W. S. Minneapolis Wyatt, O. S. Minneapolis Wyatt, O. Minneapolis Wynne, H. M. N. Minneapolis
Sawatzky, W. A Minneapolis	Sundt. MathiasMinneapolis	Wright, W. S Minneapolis
Schaaf, F. H. KMinneapolis	Swanson, CephasMinneapolis	Wyatt, O. SMinneapolis
Schaefer, W. GMinneapolis	Swanson R F. Minneapolis	Wynne, H. M. NMinneapolis
Scheldrup, N. HMinneapolis	Sweetser, H. B., JrMinneapolis	Ylvisaker, R. SMinneapolis
St. Cyr, K. J. Osseo Salt, C. G. Minneapolis Samuelson, Samuel Minneapolis Sandt, K. E. Minneapolis Sawatzky, W. A. Minneapolis Schaaf, F. H. K. Minneapolis Schaefer, W. G. Minneapolis Scheldrup, N. H. Minneapolis Scherer, L. R. Minneapolis Scheile, B. C. Minneapolis Schmidt, G. F. Minneapolis Schmidt, G. F. Minneapolis Schmidt, G. F. Minneapolis	Sweetcar H R Sr Minneapolis	Yoerg, O. WMinneapolis
Schiele, B. C	Sweetser, T. HMinneapolis	Zaworski, E. A Minneapolis Zierold, A. A Minneapolis
Schmidt, G. F	Sweitzer, S. E	Zierold, A. A
Schmitt, A. F Minneapolis Schmitt, S. C Los Angeles, Calif.	Swendseen, C. G Minneapolis	Ziskin, ThomasMinneapolis
Schmitt, S. C Los Angeles, Cani.	Circulation, Cr. Circulation	
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	OHI-SWIFT-MEEKER COUNTY MEDICA	I. SOCIETY
KANDIY	OHI-SWIFT-MEEKER COURTS MEDICA	ah.
	Regular meetings, second Wednesday of mon	icii
	Annual meeting December	

Annual meeting, December Number of Members: 32

Danielson, LennoxLitchfield Secretary	Frederickson, G. U. YWillmar	Kaufman, W. C. Appleton Lipp, F. E. Appleton Lutz, E. H. Willmar Macklin, W. E. Litchfield
Scofield, C. LBenson	Frisch, F. P	Nelson, K. LSt. Paul
Anderson, R. EWillmar Arnson, J. MBenson	Giere, S. WBenson	Petersen, M. CWillmar Peterson, S. CGrove City
Branton, A. FWillmar	Hedlund, C. JAtwater Hodapp, R. JWillmar	Proeschel, R. KWillmar Scofield, C. LBenson
Branton, B. JWillmar Brigham, FrankWatkins	Jacobs. D. LWillmar	Telford, V. JLitchfield
Daignault, OscarBenson Danielson, K. ALitchfield	Jacobs, J. CWillmar Jensen, H. HAtwater	Wilmot, C. ALitchfield Wilmot, H. ELitchfield
Danielson Lennoy Litchfield	Johnson, HansKerkhoven	withou, H. ELiteuneid

LYON-LINCOLN COUNTY MEDICAL SOCIETY Regular meetings, first Tuesday of month Spring and Fall Annual meeting, first Tuesday in November Number of Members: 25

Erickson, A. O. Ivanhoe Monson, L. J. Canby Valentine, W. H. Ira	President fohnson, P. C	Potter, R. B	Robertson, J. B. Minneapoli Sanderson, E. T. Minneot Schmidt, P. G. Granite Fall Smith, L. A. Balator Thordarson, Theodore Minneot Vadheim, A. L. Tyle Vadheim, J. L. Tyle Valentine, W. H. Trac Workman, W. G. Trac Workman, W. G. Trac Yagger, W. W. Marsha
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McLEOD COUNTY MEDICAL SOCIETY

Regular meetings, first Thursday of month Annual meeting, January Number of Members: 18

Jensen, A. MBrownton	Jensen, A. H
	Klima, W. WStewart
Sheppard, C. G	Langhoff, A. H
Clement, J. BLester Prairie	McMahon, M. JGreen Isle
Fine, B. AWinsted	
Holm, H. HGlencoe	Ninneman, N. N Silver Lake

Sahr, W. G
Schmidt, W. RGlencoe
Scholpp, O. W
Sheppard, C. GHutchinson
Sheppard, C. G
Sheppard, FredHutchinson
Sheppard, P. EHutchinson
Tinker, C. WStewart
Trutna, T. JSilver Lake

Figi, Fishe Foley Frick Fried

Gaard Gard Ghood Giffi Good Good Good Gra Gra Gra Gra Gra Gra

MOWER COUNTY MEDICAL SOCIETY

Regular meetings, last Thursday of month excepting June, July and August Annual meeting, Tuesday before last Thursday in November Number of Members: 27

President	Hanson, E. CAustin
Hegge, R. SAustin	Havens, J. G. WAustir
Secretary	Hegge, O. HAustin
Robertson, P. AAustin	Hegge, R. SAustit
	Henslin, A. ELe Roy
Allen, A. WAustin	Hertel, G. EAustin
Allen, C. CAustin	Johnson, O. JLyli Kibler, F. EAustir
Allen, H. BAustin	Kibler, F. EAustin
Cronwell, B. JAustin	Leck, P. CAustin
Flanagan, L. GAustin	Lommen, P. AAustin
Grise, W. BAustin	McKenna, J. KAustin

Mitchell, I Morrow, J	R. S	RLyle SGrand Meadow Austin Le Roy
Robertson, Rosenthal,	P. F.	AAustin HGrand Meadow
Schneider, Schottler,	P.	JAdams JDexter Austin
Thomson,	J.	MBrownsdale

NICOLLET-LE SUEUR COUNTY MEDICAL SOCIETY

Regular meetings, first Tuesday, April, September, and December
Annual meeting, first Tuesday in December
Number of Members: 22

Sonnesyn, N. NLe	Sueur
Hiniker, P. JLe	Sueur
Aitkens, H. BLe	Center
Covell, W. W Le Curtis, R. A Le Ericson, Swan Le	Center

Number of Members: 22
Freeman, G. HSt. Peter
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OLMSTED-HOUSTON-FILLMORE-DODGE COUNTY MEDICAL SOCIETY

Regular meetings, first Wednesday every odd month Annual meeting, November Number of Members: 407

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Anderson, M. J
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Hewitt, Edith SRochester	
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Sawyer, MalcolmRo	chester
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Snell, A. M R	ochester
Snyder, J. MR	ochester
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Stalker, L. K	ochester
Steffens I. F	ochester
Stickney T. M. B	ochester
Stubler L. G. B	ochester
Sutherland, C. G R	ochester
Swartz, F. CR	ochester
Swift, E. V R	ochester
Swingle, H. F., Ir.	ochester
Staffer, L. F. R. Steffens, L. F. R. Steffens, L. F. R. Stickney, J. M. R. Stuhler, L. G. R. Stuhler, L. G. R. Suhterland, C. G. R. Swartz, F. C. R. Swift, E. V. R. Swingle, H. F., Jr. R. Swingle, H. F., Jr. R.	lochester
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Tennison, William, III. IF Tennison, William, III. IF Thispen, F. M. IF Thompson, G. J. IF Thompson, G. J. IF Tillisch, J. H. IF Tooke, T. B., Jr. IF Tooke, T. B., Jr. IF Trandem, C. Elinor Trueman, K. R. IF Trueman, K. R. IF Tuchy, E. B. IF Tuchy, E. IF Wagener, H. P. IF Wagener, H. P. IF Wagener, H. P. IF Wagener, H. P. IF Wasman, Morris Wakefield, E. G. Walsh, M. N. Walters, Waltman Ward, C. E. Jacks Watkins, C. H. Watterson, K. W. Mead Waugh, J. M. Weaver, D. F. Jr. Weber, H. M. Weir, J. F.	ochester tochester tochester tochester Harmony tochester
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Tennison, William, III. F. Tennison, William, III. F. Tennison, William, III. F. Thimpson, G. J. F. F. Tennison, G. J. F. Tillisch, J. H. F. Tooke, T. B., J. F. Tooke, T. B., J. F. Trandem, C. Elinor F. Trueman, K. R. J. Trueman, K. R. J. Tuchy, E. B. J. Uihlein, Alfred J. Usher, F. C. J. Vaughn, L. D. J. Vickers, P. M. J. Waggener, H. P. J. Waggoner, R. P. J. Waggoner, R. P. J. Wagsoner, R. P. J. Washam, Morris Wakefield, E. G. J. Walsh, J. J. Walsh, J. J. Walters, Waltman. Ward, C. E. Jacks Wattens, C. H. Watterson, K. W. Mead Waugh, J. M. Weer, J. F. J. Weber, H. M. Weir, J. F. Westra, J. J. Wilcox, L. E. Williams, R. V. Williams, R. V. Williusn, F. A. Williusn, D. M.	ochester tochester tochester tochester Harmony kochester Rochester
Tennison, William, III. F. Tennison, William, III. F. Tennison, William, III. F. Thimpson, G. J. F. F. Tennison, G. J. F. Tillisch, J. H. F. Tooke, T. B., J. F. Tooke, T. B., J. F. Trandem, C. Elinor F. Trueman, K. R. J. Trueman, K. R. J. Tuchy, E. B. J. Uihlein, Alfred J. Usher, F. C. J. Vaughn, L. D. J. Vickers, P. M. J. Waggener, H. P. J. Waggoner, R. P. J. Waggoner, R. P. J. Wagsoner, R. P. J. Washam, Morris Wakefield, E. G. J. Walsh, J. J. Walsh, J. J. Walters, Waltman. Ward, C. E. Jacks Wattens, C. H. Watterson, K. W. Mead Waugh, J. M. Weer, J. F. J. Weber, H. M. Weir, J. F. Westra, J. J. Wilcox, L. E. Williams, R. V. Williams, R. V. Williusn, F. A. Williusn, D. M.	ochester tochester tochester tochester Harmony kochester Rochester
Tennison, William, III. F. Tennison, William, III. F. Tennison, William, III. F. Thimpson, G. J. F. F. Tennison, G. J. F. Tillisch, J. H. F. Tooke, T. B., J. F. Tooke, T. B., J. F. Trandem, C. Elinor F. Trueman, K. R. J. Trueman, K. R. J. Tuchy, E. B. J. Uihlein, Alfred J. Usher, F. C. J. Vaughn, L. D. J. Vickers, P. M. J. Waggener, H. P. J. Waggoner, R. P. J. Waggoner, R. P. J. Wagsoner, R. P. J. Washam, Morris Wakefield, E. G. J. Walsh, J. J. Walsh, J. J. Walters, Waltman. Ward, C. E. Jacks Wattens, C. H. Watterson, K. W. Mead Waugh, J. M. Weer, J. F. J. Weber, H. M. Weir, J. F. Westra, J. J. Wilcox, L. E. Williams, R. V. Williams, R. V. Williusn, F. A. Williusn, D. M.	ochester tochester tochester tochester Harmony kochester Rochester
Tennison, William, III	ochester tochester tochester tochester Harmony tochester
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Tennison, William, III	ochester tochester tochester tochester Harmony tochester
Tennison, William, III	ochester tochester tochester tochester Harmony tochester
Tennison, William, III. F. Tennison, William, III. F. Tennison, William, III. F. Thimpson, G. J. F. F. Tennison, G. J. F. Tillisch, J. H. F. Tooke, T. B., J. F. Tooke, T. B., J. F. Trandem, C. Elinor F. Trueman, K. R. J. Trueman, K. R. J. Tuchy, E. B. J. Uihlein, Alfred J. Usher, F. C. J. Vaughn, L. D. J. Vickers, P. M. J. Waggener, H. P. J. Waggoner, R. P. J. Waggoner, R. P. J. Wagsoner, R. P. J. Washam, Morris Wakefield, E. G. J. Walsh, J. J. Walsh, J. J. Walters, Waltman. Ward, C. E. Jacks Wattens, C. H. Watterson, K. W. Mead Waugh, J. M. Weer, J. F. J. Weber, H. M. Weir, J. F. Westra, J. J. Wilcox, L. E. Williams, R. V. Williams, R. V. Williusn, F. A. Williusn, D. M.	ochester tochester tochester tochester Harmony tochester

PARK REGION DISTRICT AND COUNTY MEDICAL SOCIETY Douglas, Grant, Otter Tail and Wilkin Counties Regular meetings, Second Wednesday every other month

Annual meeting, December Number of Members: 56

President
Baker, N. HFergus Falls Secretary
Boline, C. ABattle Lake
Ahrens, R. SFergus Falls
Arndt, H. WDetroit Lakes
Baker, A. CFergus Falls
Raber N H Fergus Falls
Baker, N. H Fergus Falls Bergquist, K. E Battle Lake
Blakey, A. ROsakis
Boline, C. ABattle Lake
Donne, C. M Dattie Dake
Boyd, L. MAlexandria
Boysen, J. E Pelican Rapids
Boysen, Peter Pelican Rapids
Broker, W. SWadena
Burnap, W. LFergus Falls
Clifford, G. WAlexandria
Combacker, L. CFergus Falls
Drought, W. WFergus Falls
Facer John Perham

rumber of members: 50
Estrem, C. OFergus Falls
Fisher, J. MFergus Falls
Fisher, J. M Fergus Falls Griswold, F. E
Hand, W. RElbow Lake
Hanson, E. C New York Mills
Haskell, A. DAlexandria
Heiberg, E. AFergus Falls
Jacobs, G. CFergus Falls
Johnson, O. VFergus Falls
Katzberg, L. WFergus Falls
Kierland, P. EAlexandria
Lee, W. AFergus Falls
Leibold, H. HParkers Prairie
Leland, J. T
Lewis, A. J
Love. F. A
Lund, C. J. TUnderwood
McMahon, L. H Breckenridge
Miller, W. ANew York Mills Mouritsen, G. JFergus Falls
Mouritsen, G. JFergus Falls

Naegeli, FrankFergus Falls
Nelson, W. O. B Fergus Falls
Otto, H. CFrazee
Parson, L. RElbow Lake
Patterson, W. LFergus Falls
Dauleen T C Permis Falls
Paulson, T. SFergus Falls
Powers, F. WBarrett
Randall, A. MAshby
Reeve, E. TElbow Lake
Rimer, E. WBreckenridge
Satersmoen, Theodore Pelican Rapids
Sather, E. RAlexandria
Serkland, J. CRothsay
Stemsrud, H. LParkers Prairie
Cutton II D
Sutton, H. R
Tanquist, E. JAlexandria
Vail, J. BHenning
Webster, L. JBattle Lake
Windsor, R. LFergus Falls
Wear W F Campbell

Levic Levic Levic Levic Levic Levic Levic Levic Lick Lipp Made Mc Marman Marman

RAMSEY COUNTY MEDICAL SOCIETY
Regular meetings, last Monday in every month excepting June, July, August Annual meeting, last Monday in January Number of Members: 346

Develope
President St. Paul
Schoch, R. B. JSt. Paul
Secretary
Wilson, J. ASt. Paul
Abbott, J. S St. Paul Ahrens, A. E St. Paul Ahrens, A. H St. Paul Alberts, M. W. St. Paul
Ahrens, A. ESt. Paul
Ahrens, A. H St. Paul
Alberts, M. WSt. Paul Alden, I. FSt. Paul
Alexander, F. HSt. Paul
Armstrong I. M
Arnquist, A. SSt. Paul
Aurelius, J. RSt. Paul
Ausman, C. FSt. Paul
Bacon, D. K St. Paul
Bacon, L. C
Balcome, M. MSt. Paul
Barry, L. WSt. Paul
Barsness, NellieSt. Paul Beadie W. DCannon Falls
Ahrens, A. H. St. Paul Alberts, M. W. St. Paul Alden, J. F. St. Paul Alden, J. F. St. Paul Alexander, F. H. St. Paul Armstrong, J. M. St. Paul Armstrong, J. M. St. Paul Aurelius, J. R. St. Paul Ausman, C. F. St. Paul Bacon, D. K. St. Paul Bacon, D. K. St. Paul Bacon, L. C. St. Paul Barsnes, M. M. St. Paul Barsnes, Nellie St. Paul Barsnes, Nellie St. Paul Beadie, W. D. Cannon Falls Beadie, W. D. Cannon Falls Beals, Hugh St. Paul
Beech, R. H St. Paul
Beek, H. OSt. Paul
Bell, C. C St. Paul
Bennion P. H
Bentley, N. PSt. Paul
Berrisford, P. D St. Paul
Bicek, J. FSt. Paul
Binger, H. ESt. Paul
Bock, R. ASt. Paul
Roeckmann Feil St. Paul
Bohland, E. HSt. Paul
Bolender, H. LSt. Paul Borg, J. FSt. Paul
Bouma, L. RSt. Paul
Brand, G. DSt. Paul
Bray, E. RSt. Paul
Briggs, J. F
Brodie, W. DSt. Paul
Brown, E. ISt. Paul
Brown, J. CSt. Paul
Burch F P St. Paul
Burch, F. ESt. Paul
Burns, R. MSt. Paul
Burton, C. GSt. Paul
Cain C. L. St. Paul
Caldwell, J. PSt. Paul
Carroll, W. CSt. Paul
Christiansen A S. Paul
Christison, I. T
Clark, H. B., JrSt. Paul
Clark, T. CMinneapolis
Bohland, E. H.
- It. II

Number of Members: 346	
Collie, H. GSt.	Paul
	Paul
Connor, C. ESt.	Paul
Cook, C. KSt.	Paul
Cooper, C. CSt.	Paul
Countryman, R. SSt.	Paul
Cowern, E. WNorth St.	Paul
Coving, A. R. St. Connor, C. E. St. Cook, C. K. St. Cooper, C. C. St. Countryman, R. S. St. Cowern, E. W. North St. Critchfield, L. R. St. Culligan, J. M. St. Culligan, J. M. St. Dack J. G. St.	Paul Paul
Dack I. G. St.	Paul
Daugherty, E. B., Marine-on-St.	Croix
Dack, L. G	Paul
Davis, HerbertSt.	Paul
Davis, WilliamSt.	Paul
Delavan P A St	Paul Paul
Dedolph, Karl. St. Delavan, P. A. St. Derauf, B. I. St. Dickson, T. H. St. Dickson, T. H. St.	Paul
Dickson, T. HSt.	Paul
Dittman, G. CSt.	Paul
Donohue, P. FSt.	Paul
Dovre, C. M	Paul Paul
Dunn I N St	Paul
Dickson, 1. H. St.	Paul
Earl, JohnSt.	Paul
Earl, RobertSt.	Paul
Edwards T W St.	Paul Paul
Edwards, T. I. St	Paul
Earl, G A. St. Earl, John St. Earl, John St. Earl, John St. Earl, Robert St. Edlund, G. St. Edwards, J. W. St. Edwards, J. W. St. Edwards, T. J. St. Edwards, T. J. St. Edwards, T. J. St. Enterson, E. C. St. Enterson, E. C. St. Endress, E. K. St. Ernest, G. C. St. Ernest, G. C. St. Ernest, G. C. St. Ernest, G. C. St. Fahey, E. W. St. Feshelby, E. C. St. Frester, H. H. St. Flanagan, H. F. St. Flanagan, H. F. St. Flogarty, C. W. St. Frogery, E. J. St. Freedman, L. L. St. Freidman, L. L. St. Fritz, W. L. St. Fritz, W. L. St. Froarts, C. W. St. Froarts, C. W. St. Gager, E. C. St. Gardiner, D. G. St. Earlercht, Arthur St. Gardiner, D. G. St.	Paul
Emerson, E. CSt.	Paul
Endress, E. KSt.	Paul
Ernest, G. CSouth St.	Paul Paul
Fahev. E. W St.	Paul
Ferguson, J. CSt.	Paul
Fesler, H. HSt.	Paul
Flanagan, H. FSt.	Paul Paul
Fogelherg E I St	Paul
Foley, F. E. BSt.	Paul
Freeman, C. DSt.	Paul
Freidman, L. LSt.	Paul
Fronts C W St.	Paul Paul
Gager, E. CSt.	Paul
Garbrecht, ArthurSt. Gardiner, D. GSt.	Paul
Gardiner, D. GSt.	Paul
Geer, E. KSt.	Paul
Gardiner, D. G. St. Geer, E. K. St. Gehlen, J. N. St. Ghent, C. H. St. Gibbs. F. C. St.	Paul Paul
Ghent, C. H. St. Gibbs, E. C. St. Gilfillan, J. S. St. Gilkey, S. E. St.	Paul
Gilfillan, J. SSt.	Paul
Gilkey, S. ESt.	Paul
Goltz, E. VSt	Paul Paul
Ginsberg, Wm. St. Goltz, E. V. St. Grant, H. W. St.	Paul
Gratzek, ThomasSt.	Paul
Gratzek, Thomas St. Grau, R. K. St. Greenberg, H. A. St. Gruenhagen. A. P. St. Hagaman, G. K. St. Hall, A. R. St. Hall, H. H. St. Hammes, E. M. St.	Paul
Greenberg, H. ASt	. Paul
Hagaman, G. K.	Paul
Hall, A. R St.	Paul
Hall, H. HSt	. Paul
Hammes, E. MSt	. Paul

Hammond, J. F St. J. Hanson, H. B St. J. Harmon, G. E St. J. Hartfiel, W. F St. J. Hartfiel, W. F St. J. Hartley, E. C St. J. Hassett, M. F St. J. Hassett, M. F. St. J. Hauser, V. P St. J. Hawkins, V. J. St. J. Heath, A. C Stillw. Heck, W. W. St. Hedenstrom, F. G. St. J. Hedenstrom, F. G. St. Hengstler, W. H St. Hensel, C. N St. Herman, Samuel St. Heron, R. C St. St.	Paul
Hanson, H. BSt. 1	Paul
Harmon, G. ESt. 1	Paul
Hartfiel, W. FSt. 1	Paul
Hartley, E. CSt. I	Paul
Houser V P St 1	Paul
Hawkins, V. J St. 1	Paul
Heath, A. CStillw	ater
Heck, W. WSt. 1	Paul
Hedenstrom, F. GSt.	Paul
Hengstler, W. HSt.	Paul
Herman Samuel St	Paul
Heron, R. C St. Herrmann, E. T St. Hilger, A. W St.	Paul
	Paul
Hilger, A. WSt.	Paul
Hilger, D. DSt.	Paul
Hillehon H F	Paul Paul
Hiniker I. P St	Paul
Hochfilzer, I. ISt.	Paul
Hoff, AlfredSt.	Paul
Hoffman, M. HSt.	Paul
Holcomb, J. TSt.	Paul
Holcomb, O. WSt.	Paul Paul
Holt T F	Paul
Hopkins, G. W St.	Paul
Howard, M. ASt.	Paul
Howard, W. SSt.	Paul
Hullsiek, R. BSt.	Paul
Herrmann, E. T. St. Hilger, A. W. St. Hilger, A. W. St. Hilger, D. D. St. Hilger, D. D. St. Hilger, L. A. St. Hilger, L. A. St. Hilger, L. A. St. Hilger, L. P. St. Hochfilzer, J. J. St. Hochfilzer, J. J. St. Hoff. Alfred. St. Hoff. Alfred. St. Hoffman, M. H. St. Holcomb, J. T. St. Holcomb, O. W. St. Holcomb, O. W. St. Holcomb, O. W. St. Holcomb, G. W. St. Holward, M. A. St. Howard, M. A. St. Howard, M. A. St. Howard, M. A. St. Howard, M. S. St. Ligerson, C. St. Ligerson, C. St. Ligerson, C. A. St. Ligerson, J. W. St. Johnson, J. W. St. Johnson, J. A. St. Kamary, E. M. St. Kamman, G. R. St. Kamman, G. R. St. Kamary, E. L. St. Kasper, E. M. St. Kasper, E. M. St. Kasper, E. M. St. Keele, Rolland St. Kelly, J. V. St.	Paul
Ingerson C A St	Paul Paul
Jesion, I. W	Paul
Johanson, W. GSt.	Paul
Johnson, A. MSt.	Paul
Johnson, J. ASt.	Paul
Johnson, I. HSan Francisco,	Calif. Paul
Kamman G R St	Paul
Kannary, E. LSt.	Paul
Kaplan, D. HSt.	Paul
Kasper, E. MSt.	Paul
Keete, RollandSt.	Paul
Kelly, J. V	Paul Paul
Kelly, J. V. St. Kelly, P. H. St. Kenefick, E. V. St. Kennedy, W. A. St.	Paul
Kennedy, W. A St. Kesting, Herman St. King, G. L St.	Paul
	Paul
King, G. LSt.	Paul
Klein, H. N. St. Knauff, M. K. St. Koepsell, A. A. H. St. Kugler, A. St. Kvitrud, Gilbert St. Langenderfer F. V. St.	Paul Paul
Koencell A A II Co	Paul
Kugler, A. A. St	Paul
Kvitrud, GilbertSt.	Paul
Langenderfer, F. VSt. Larsen, C. LSt.	Paul
Larsen, C. LSt.	Paul
Lax, M. HSt.	Paul
Leavenworth R O S.	Paul Paul
Leick, R. M.	Paul
Leitch, ArchibaldSt.	Paul
Leavenworth, R. O. St. Leick, R. M. St. Leitch, Archibald St. Lepak, J. A. St.	Paul
Managara, Mana	

Lerche, William. Cable, Wis. Leven, N. L	Olean C A St Paul	Smith, V. D. E. St. Paul Snyder, G. W. St. Paul Sohlberg, O. I. St. Paul Souster, B. B. St. Paul Sprafka, J. M. St. Paul Steinberg, C. L. St. Paul Sterner, E. G. St. Paul Sterner, E. R. St. Paul Stewart, Alexander St. Paul Stinnette S. E. St. Paul
Lerche, William	Olson, C. A. St. Paul O'Reilley, B. E. St. Paul Ostergren, E. W. St. Paul Ouelette, A. J. St. Paul	Snyder, G. WSt. Paul
Levin, BertSt. Paul	Ostergren, E. WSt. Paul	Sohlberg, O. ISt. Paul
Levitt, G. XSt. Paul	Ouelette, A. JSt. Paul	Souster, B. BSt. Paul
Lick, C. LSt. Paul	Page C. V. St. Paul Pearson F. R. St. Paul Pedersen A. H. St. Paul Peterson D. B. St. Paul Peterson J. L. E. St. Paul Peterson V. N. St. Paul Peterson V. N. St. Paul Peterson V. N. St. Paul Peterson F. J. St. Paul Prendergast H. St. Paul Prendergast J. St. Paul Prendergast G. Hastings	Strainbarg C T St Paul
Lippman, H. SSt. Paul	Pearson, F. RSt. Paul	Sterner F. G. St. Paul
Little, W. JSt. Paul	Pedersen, A. HSt. Paul	Sterner, E. RSt. Paul
Lowe F R South St. Paul	Petry, C. G	Stewart, AlexanderSt. Paul
Lowe, T. ASouth St. Paul	Peterson, L. L. ESt. Paul	Stinnette, S. ESt. Paul
Lundholm, A. MSt. Paul	Peterson, V. NSt. Paul	Stoeckmann, A. ESt. Paul
Lynch, F. WSt. Paul	Plondke, F. JSt. Paul	Stewart, Alexander
Madden, J. FSt. Paul	Prendergast, H. JSt. Paul	Strate G. E
Markoe, J. CSt. Paul	Prendergast, J. JSt. Paul	Strauss, M. LSt. Paul
Marks, R. W	Radabaugh, R. C. Hastings Ramsey, W. R. St. Paul Richards, E. T. F. St. Paul Richardson, H. E. St. Paul Richardson, H. E. St. Paul	Swanson, J. ASt. Paul
Matteon C. H St. Paul	Dishards F T F St Paul	Swendson, J. JSt. Paul
McCarthy, J. JSt. Paul	Richardson, H. FSt. Paul	Teisberg, C. BSt. Paul
McCarthy, W. RSt. Paul	Ritchie, H. PSt. Paul	Thompson, F. ASt. Paul
McClanahan, J. HWhite Bear	Ritchie, H. P St. Paul Ritchie, W. P St. Paul Ritt, A. E	Tiff C P St Paul
McClanahan, T. S White Bear	Ritt, A. ESt. Paul	Tregilgas, H. R South St. Paul
McNavin C F St Paul	Rogers, S. FSt. Paul	Van Slyke, C. ASt. Paul
Meade, I. RSt. Paul	Rosenholtz Burton St. Paul	Veirs, DeanSt. Paul
Mears, B. JSt. Paul	Rosenthal, RobertSt. Paul	Veirs, Ruby SSt. Paul
Medelman, J. PSt. Paul	Rothrock, J. LSt. Paul	Venables, A. ESt. Paul
Meyerding, E. ASt. Paul	Rothschild, H. JSt. Paul	Wase C W St Paul
Moga, J. A St. Paul	Roy, P. CSt. Paul	Walker A. ESt. Paul
Molander H A St Paul	Ruhberg, G. NSt. Paul	Walter, C. WSt. Paul
Moquin, Marie ASt. Paul	Ryan I I	Warnock, R. WSt. Paul
Moran, T. RPhoenix, Ariz.	Rogers, S. F. St. Paul Rosenbladt, Louis St. Paul Rosenholtz, Burton St. Paul Rosenthal, Robert St. Paul Rothrock, J. L. St. Paul Rothschild, H. J. St. Paul Roy, P. C. St. Paul Ruberg, G. N. St. Paul Rutherford, W. C. St. Paul Ryan, J. St. Paul Ryan, J. St. Paul Ryan, M. St. Paul Ryan, M. E. St. Paul	Warren, C. ASt. Paul
Moriarty, BereniceSt. Paul	Ryan, M. ESt. Paul	Warren, E. LSt. Paul
Lundholm, A. M. St. Paul Lynch, F. W. St. Paul Markoe, J. C. St. Paul Martineau, J. L. St. Paul Martineau, J. L. St. Paul Mattson, C. H. St. Paul McCarthy, J. St. Paul McCarthy, W. R. St. Paul McClanahan, J. H. White Bear McClanahan, J. H. White Bear McClanahan, J. F. White Bear McLaren, Jennette M. Minneapolis McNevin, C. F. St. Paul Meade, J. R. St. Paul Meade, J. R. St. Paul Mears, B. J. St. Paul Medelman, J. P. St. Paul Meyerding, E. A. St. Paul Moga, J. A. St. Paul Moga, J. A. St. Paul Mogulner, J. N. Los Angeles, Calif. Molander, H. A. St. Paul Moquin, Marie A. St. Paul Morairty, Berenice St. Paul Morairty, Berenice St. Paul Morrissey, F. B. St. Paul Moss, M. St. Paul Moynihan, T. J. St. Paul Muller, R. T. St. Paul Muller, R. T. St. Paul Naegeli, A. E. St. Paul Naegeli, A. E. St. Paul Naegeli, A. E. St. Paul	Sarnecki, M. M St. Paul Satterlund, V. L St. Paul Savage, F. J St. Paul	Welch M C St Paul
Moss, M. N	Satterlund, V. I	Wenzel, G. PSt. Paul
Muller R T. St Paul	Savage, F. JSt. Paul	Werner, O. SCambridge
Myers, ThomasSt. Paul	Schoch, R. B. JSt. Paul	Wheeler, M. WSt. Paul
Naegeli, A. ESt. Paul	Schons, EdwardSt. Paul	Whitacre, J. CSt. Paul
Nageri A. E. St. Paul	Schuldt, F. C	Williams A R St Paul
Neher, F. HSt. Paul	Schwyger Arnold St Paul	Williams, C. KSt. Paul
Nelson, L. ASt. Paul	Scott, E. ESt. Paul	Williamson, G. ASt. Paul
Nichols, A. ESt. Paul	Senkler, G. ESt. Paul	Wilson, J. ASt. Paul
Noble I I. St Paul	Setzer, H. JSt. Paul	Wilson, J. VSt. Paul
Nuebel, C. JSt. Paul	Shannon, W. RSt. Paul	Winnick, J. BSt. Paul
Nye, Katherine ASt. Paul	Shellman, J. L	Wolfe H H St Paul
Nye, Lillian LSt. Paul	Shimonek S W	Wolff, H. LSt. Paul
O'Brien, W. MSt. Paul	Short, JacobSt. Paul	Wolkoff, H. JSt. Paul
O'Connor, L. JSt. Paul	Simons, L. TSt. Paul	Youngren, E. RSt. Paul
Oerting, HarrySt. Paul	Singer, B. JSt. Paul	Zachman, L. LSt. Paul
Ogden, WarnerSt. Paul	Skinner, H. OSt. Paul	Zander, C. H
O'Brien, W. M. St. Paul O'Connor, L. J. St. Paul Oerting, Harry St. Paul Ogden, Warner St. Paul Ohage, Justus, Jr. St. Paul	Satteriund, V. L. St. Faul Savage, F. J. St. Paul Schoch, R. B. J. St. Paul Schons, Edward St. Paul Schuldt, F. C. St. Paul Schuldt, F. C. St. Paul Schulze, A. G. St. Paul Schulze, A. G. St. Paul Schwyzer, Arnold St. Paul Schwyzer, Arnold St. Paul Schwyzer, Arnold St. Paul Schelter, G. E. St. Paul Senkler, G. E. St. Paul Shannon, W. R. St. Paul Shannon, W. R. St. Paul Shellman, J. L. St. Paul Shellman, J. L. St. Paul Shillington, M. A. Glendive, Mont. Shimonek, S. W. St. Paul Simons, I. T. St. Paul Simons, I. T. St. Paul Simons, I. T. St. Paul Skinner, H. O. St. Paul Smisek, E. A. St. Paul	Zimmermann, II. D
		Strauss, M. L. St. Paul
	RED RIVER VALLEY MEDICAL SOCIETY	
Kittson, Mahnomen,	Marshall, Norman, Pennington, Polk, Red Lake	and Roseau Counties
	Regular meetings, second Tuesday every quarte	r ·
	Annual meeting, second Tuesday, December	
	Number of Members: 62	
President Erickson, Eskil	Delmore, J. L., Sr. Roseau Ederer, J. J. Mahnomen Erickson, Eskil Halstad Factile Factile	Nelson, H. ECrookston
Erickson, Eskil	Ederer, J. J	Ohnstad J. J. Moletach
Sagratari	Griffin P I Feetile	Oppegaard C. L. Crookston
Oppegaard, C. LCrookston	Haugseth, Enoch,Twin Valley	Oppegaard, M. OCrookston
Oppegaard, C. L	Hedemark, H. H Thief River Falls	Paradis, W. GCrookston
Adkins, C. MThief River Falls	Helseth, H. K Thief River Falls	Parsons, J. GCrookston
Anderson, W. E Thief River Falls	Henney, W. HMcIntosh	Pellettiere, E. V Thief River Falls
Anderson, W. SMinneapolis		Reff, A. RCrookston
Benr, U. KCrookston	TI-11-1- W TI	Dian II D Posesu
	Hollands, W. HFisher	Robertson, F. OEast Grand Forks
Berlin, A. S	Hollands, W. H	Rice, H. RRoseau Robertson, F. OEast Grand Forks Roy, J. ARed Lake Falls
Berlin, A. S	Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls *Kahala, Arthur	Rice, H. R
Berlin, A. S	Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls Kahala, Arthur. Crookston Kirk, G. P. East Grand Forks	Rice, H. R
Berlin, A. S. Hallock Bertelson, O. L. Crookston Biedermann, Jacob. Thief River Falls Blegen H. M. Warren	Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls *Kahala, Arthur Crookston Kirk, G. P. East Grand Forks Knutson, G. A. Greenbush	Rice, H. R
Berlin, A. S. Hallock Bertelson, O. L	Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls *Kahala, Arthur Crookston Kirk, G. P. East Grand Forks Knutson, G. A. Greenbush Kostick, W. R. Fertile Leitch N. M. Warren	Rice, H. R
Berlin, A. S	Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls Kahala, Arthur Crookston Kirk, G. P. East Grand Forks Knutson, G. A. Greenbush Kostick, W. R. Fertile Leitch, N. M. Warroad Loken, Theodore. Ada	Rice, H. R
Berlin, A. S. Hallock Bertelson, O. L. Crookston Biedermann, Jacob. Thief River Falls Blegen, H. M. Warren Bloedel, T. Thief River Falls Boardman, D. V. Twin Valley Bohl, G. W. Ada Borreson, Baldwin. Thief River Falls	Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls *Kahala, Arthur. Crookston Kirk, G. P. East Grand Forks Knutson, G. A. Greenbush Kostick, W. R. Fertile Leitch, N. M. Warroad Loken, Theodore. Ada Lynde, O. G. Thief River Falls	Nelson, H. E. Crookston Norman, J. F. Crookston Ohnstad, J. L. McIntosh Oppegaard, C. L. Crookston Oppegaard, M. O. Crookston Paradis, W. G. Crookston Parsons, J. G. Crookston Parsons, J. G. Crookston Parsons, J. G. Crookston Parsons, F. C. Crookston Parsons, J. G. Crookston Rice, H. R. Crookston Rice, H. R. Crookston Rice, H. R. Roseau Robertson, F. O. East Grand Forks Roy, J. A. Red Lake Falls Sather, G. Crookston Sather, R. Crookston Sather, G. Crookston Shaleen, A. W. Hallock Shedlov, Abraham Fosston Stevens, John. Gonvick Stocking, F. F. Hallock Stocking, F. F. Hallock
Berlin, A. S. Hallock Bertelson, O. L. Crookston Biedermann, Jacob Thief River Falls Blegen, H. M. Warren Bloedel, T. Thief River Falls Boardman, D. V. Twin Valley Bohl, G. W	Hollands, W. H. Fisher Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls *Kahala, Arthur. Crookston Kirk, G. P. East Grand Forks Knutson, G. A. Greenbush Kostick, W. R. Fertile Leitch, N. M. Warroad Loken, Theodore Ada Lynde, O. G. Thief River Falls Malloy, J. F. Thief River Falls	Rice, H. R
Berlin, A. S	Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls Kahala, Arthur. Crookston Kirk, G. P. East Grand Forks Knutson, G. A. Greenbush Kostick, W. R. Fertile Leitch, N. M. Warroad Loken, Theodore Ada Lynde, O. G. Thief River Falls Malloy, J. F. Thief River Falls Mellby, O. F. Thief River Falls	Rice, H. R
Berlin, A. S. Hallock Bertelson, O. L. Crookston Biedermann, Jacob. Thief River Falls Blegen, H. M. Warren Bloedel, T. Thief River Falls Boardman, D. V. Twin Valley Bohl, G. W. Ada Borreson, Baldwin. Thief River Falls Bratrud, Edward. Thief River Falls Brink, A. A. Baudette Brown, L. L. Crookston	Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls *Kahala, Arthur. Crookston Kirk, G. P. East Grand Forks Knutson, G. A. Greenbush Kostick, W. R. Fertile Leitch, N. M. Warroad *Loken, Theodore. Ada Lynde, O. G. Thief River Falls Malloy, J. F. Thief River Falls Mellby, O. F. Thief River Falls Mellby, O. F. Thief River Falls Mercil, W. F. Crookston	Rice, H. R
Adkins, C. M Thief River Falls Anderson, W. E Thief River Falls Anderson, W. S Minneapolis Behr, O. K Crookston Berge, D. O Roseau Berlin, A. S Hallock Bertelson, O. L Crookston Biedermann, Jacob. Thief River Falls Blegen, H. M Warren Bloedel, T. Thief River Falls Boardman, D. V. Twin Valley Bohl, G. W Ada Borreson, Baldwin. Thief River Falls Bratrud, Edward. Thief River Falls Brink, A. A Baudette Brown, L. L Crookston Delmore, J. L., Jr. Roseau	Ederer, J. J. Mahnomen Erickson, Eskil Halstad Griffin, P. J. Fertile Haugseth, Enoch. Twin Valley Hedemark, H. H. Thief River Falls Helseth, H. Thief River Falls Helseth, H. McIntosh Hodgson, H. H. Crookston Hollands, W. H. Fisher Holmstrom, C. H. Warren Johnson, H. C. Thief River Falls "Kahala, Arthur Crookston Kirk, G. P. East Grand Forks Knutson, G. A. Greenbush Kostick, W. R. Fertile Leitch, N. M. Warroad 'Loken, Theodore. Ada Lynde, O. G. Thief River Falls Malloy, J. F. Thief River Falls Mellby, O. F. Thief River Falls Mellby, O. F. Thief River Falls Mercil, W. F. Crookston Morley, G. A. Crookston	Rice, H. R

REDWOOD-BROWN COUNTY MEDICAL SOCIETY

Regular meetings, February, May, August, and November Annual meeting, May Number of Members: 31

Abbott,	C 1	R		Spring	field
Anderso	n, E	. M.	 	.Lambe	rton
Brey, F	. W		 	Wah	asso
Cairns, Dubbe,	F. F	i	 	New	Ulm
Dysterh	eft,	A. F	 	Gay	ylord
Esser,	O. J		 	Gi	bbon

Fesenmai	er.	0.	B.	 		 .New	Ulm
Fritsche,	Alb	ert		 	 	 .New	Ulm
Fritsche,	C.	J			 	 .New	Ulm
Fritsche,	T.	R		 	 	 .New	Ulm
Gibbons.	F.	C		 		 Cor	nfrey
Goblirsch							

Hammermeister, T. F. New Ulm Hovde, Rolf. Winthrop Kusske, A. L. New Ulm Mortensbak, H. E. Hanska Nuessle, W. G. Springfield Olson, K. L. Gibbon	Pelant, F. J	Seifert, O. J. New Ulm Vogel, H. A. L. New Ulm Vogel, J. H. New Ulm Wahlberg, E. W. Morgan Weiser, G. B. New Ulm Wohlrabe, E. J. Springfield
	ENVILLE COUNTY MEDICAL SOCIETY gular meetings, second Tuesday of each month Annual meeting, November Number of Members: 24	
Gaines, E. C	Cole, H. B. Redwood Falls Cole, J. G. Redwood Falls Cosgriff, J. Olivia Dordal, J. Sacred Heart Erickson, R. E. Hector Fawcett. A. M. Renville Flinn, T. E. Redwood Falls Gaines, E. C. Buffalo Lake Hartmann, C. M. Fairfax	Johnson, O. H. Redwood Falls Johnson, W. E. Morgan Lenz, J. R. Morton Madland, R. S. Fairfax Mesker, G. H. Olivia Penhall, F. W. Morton Potthoff, C. J. Minneapolis Preisinger, J. W. Renville Solsem, F. N. Sacred Heart
	RICE COUNTY MEDICAL SOCIETY Regular meetings, at call Annual meeting, December Number of Members: 37	
Robilliard, C. M. Faribault Secretary Plonske, C. J. Faribault Babcock, F. M. Northfield Beede, Ethel R. Faribault Dugan, L. F. Faribault Dungay, N. S. Northfield Engberg, E. J. Faribault Francis, D. W. Morristown Haessly, S. B. Faribault Hanson, A. M. Faribault Haynes, A. L. Faribault	Huxley, F. R. Faribault Kanne, C. W. Faribault Lende, Norman Faribault Lexa, F. L. Lonsdale Lufkin, C. D. Northfield Lyght, C. F. Northfield McKeon, J. O. Montgomery Meyer, F. C. Kenyon Meyer, P. F. Faribault Moses, Joseph, Jr. Northfield Moyer, R. E. Faribault Nuetzman, A. W. Faribault Plonske, C. J. Faribault Robilliard, C. M. Faribault	Rohrer, C. A. Waterville Rudie, C. N Kenyon Rumpf, C. W Faribault Rumpf, W. H Faribault Seeley, I. F Northfield Stewart, Gwendolyn. Faribault Stroebel, C. F Northfield Thorson, O. P Northfield Traeger, C. A. Faribault Warren, F. S Washington, D. C. West, E. J Faribault Wilkowske, R. J Nerstrand Wilson, Warren Northfield Wylie, A. R. T Faribault
Ca	ST. LOUIS COUNTY MEDICAL SOCIETY rlton, Cook, Itasca, Lake and St. Louis Counti ings, second Thursday every month except July Annual meeting, December Number of Members: 223	
Clement, T. G. Duluth Secretary MacRae, G. C. Duluth Abraham. A. Duluth Adams, B. S. Hibbing Addy, E. R. Gilbert All. C. W. Hibbing Akins, W. M. Eveleth Anderson, H. R. Deer River Armstrong, E. L. Duluth Arnold, J. E. Mountain Iron Athens, A. G. Mountain Iron Athens, A. G. Mountain Iron Athens, A. G. Duluth Ayres, G. T. Ely Bachnik, F. W. Hibbing Bagley, Elizabeth C. Duluth Bagley, Elizabeth C. Duluth Bagley, Elizabeth C. Duluth Bagley, R. Duluth Bardon, Richard Duluth Barrett, E. E. Duluth Barrett, E. E. Duluth Bender, J. H. Big Fork Berdez, G. I. Duluth Binet, H. E. Grand Rapids Birkland, O. N. Hibbing Blacklock, S. Hibbing Blakely, C. Barnum Boman, P. G. Duluth Bowen, R. Hibbing Bower, S. H. Jr. Duluth Bray, P. N. Duluth Bray, R. B. Biwabik Buckley, R. P. Duluth Bray, R. B. Biwabik Buckley, R. P. Duluth Bray, R. B. Biwabik Buckley, R. P. Duluth Bruch, J. L. Buhl Butter, J. K. Carlton Cantwell, W. F. International Falls Carstens, C. F. Hibbing	Number of Members: 223 Chapman, T. L. Duluth Cheney, E. L. Duluth Chermak, F. G. Hibbing Christensen, E. P. Two Harbors Clark, F. F. Duluth Clement, T. G. Duluth Cochrame, B. B. Coleraine Collins, A. Duluth Cochrame, B. B. Coleraine Collins, H. C. Duluth Coventry, W. A. Duluth Coventry, W. D. Duluth Davies, R. J. Nopeming Davis, B. F. Duluth Doulitle, L. E. Duluth Eckman, P. F. Duluth Eckman, R. J. Duluth Eckman, R. J. Duluth Elias, F. J. Duluth Elias, F. J. Duluth Elias, F. J. Duluth Elias, F. J. Duluth Eliott, W. S. Virginia Emanuel, K. W. Duluth Empard, R. M. Cloquet Estrem, T. A. Hibbing Ewens, H. B. Virginia Fankboner, A. M. Bull Fawcett, K. R. Duluth Fellows, M. F. Duluth Fellows, M. F. Duluth Forbes, R. S. Duluth Gendron, J. F. Grand Rapids Gillespie, M. G. Duluth Gendron, J. F. Grand Rapids Gillespie, M. G. Duluth Gendron, J. F. Grand Rapids Gillespie, M. G. Duluth Goodman, C. E. Virginia Gowan, L. R. Duluth Graham, Robert Duluth Granam, Robert Duluth Hanson, E. O. Cloquet Harlowe, H. D. Virginia	Harris, C. N. Hibbing Hatch, W. E. Duluth Hathaway, S. J. Proctor Hayes, M. F. Nashwauk Hedberg, G. A. Nopeming Heiam, W. C. Cook Heimark, O. E. Duluth Hidling, A. C. Duluth Hill, F. E. Duluth Hill, F. E. Duluth Hirschboeck, F. J. Duluth Hirschboeck, F. J. Duluth Hirschboeck, F. J. Duluth Hoff, H. O. Duluth Kiesling, J. H. Nashwauk Klein, Harry Duluth Kiesling, J. H. Nashwauk Klein, Harry Duluth Kohlbry, C. O. Duluth Kohlbry, C. O. Duluth Kotchevar, F. R. Eveleth Kozberg, Oscar, Moose Lake Kraft, Peter, Duluth Kranz, C. I. Duluth Kranz, C. I. Duluth La Bree, R. H. Chisholm Laird, A. T. Nopeming Langmack, William, Cloquet Lenont, C. B. Virginia Lepak, F. J. Duluth Litman, S. N. Duluth Lothon, S. N. Duluth Magney, F. H. Chisholm MacRae, G. C. Duluth Magney, F. H. Duluth Marrin, W. C. Duluth Marrin, E. T. Duluth Marrin, W. C. Duluth Minnestorn
		MINNESUIA MEDICINE

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Mayne, R. M. Duluth McCarty, P. D. Ely McComb, C. F. Duluth McCoy, Mary K. Duluth McDaniel, S. P. Virginia McDonald, A. I. Duluth McKenna, M. J. Grand Rapids McLeod, J. L. Duluth Megriman, I. L. Duluth Meyer, J. O. Grand Rapids Miners, G. A. Deer River Moer, R. J. Grand Rapids More, C. W. Grand Rapids More, C. W. Two Harbors More, C. W. Eveleth Morsman, L. W. Hibbing Mueller, R. F. Two Harbors Mueller, Selma C. Duluth Neff, W. S. Virginia Nelson, E. H. Chisholm Nelson, R. L. Duluth Nicholson, M. A. Duluth Nicholson, M. A. Duluth O'Hanlon, J. A. Proctor Olson, A. E. Duluth O'Honlon, J. A. Proctor Olson, A. D. Duluth	Pearsall, R. P. Vrginia Pennie, D. F. Duluth Peterson, E. N. Virginia Peterson, J. H. Duluth Plowman, E. T. Marble Power, J. E. Duluth Power, J. E. Duluth Power, J. E. Duluth Raadquist, C. S. Hibbing Raihala, John Virginia Raiter, F. W. S. Cloquet Raiter, R. F. Cloquet Raiter, R. F. Cloquet Raiter, R. F. Cloquet Robinson, J. M. Duluth Rokala, H. E. Biwabik Rood, D. Duluth Rosenfield, A. B. Hibbing Rowe, O. W. Duluth Rowles, E. K. Coleraine Rudie, P. S. Duluth Ryan, W. J. Duluth Ryan, W. J. Duluth Ryan, W. J. Duluth Sach-Rowitz, Alvan Moose Lake Salter, R. A. Virginia Sarf, O. E. Virginia Sarf, O. E. Virginia Sax, S. G. Duluth Schroder, C. H. Duluth Schroder, C. H. Duluth Schroder, C. H. Duluth Schroder, C. Duluth Schapiro, E. Duluth Shapiro, E. Duluth Shapiro, E. Duluth Shapiro, E. Duluth Shastid, T. H. Duluth Shastid, T. H. Duluth Shaw, A. W. Virginia	Smith, C. M. Duluth Smith, S. J. Eveleth Smith, W. R. Grand Marais Spang, A. J. Duluth Spier, F. W. Cloquet Strathern, M. I. Gilbert Strobel, W. G. Duluth Stuart, A. B. Cloquet Sukeforth, I. A. Duluth Stuart, A. B. Cloquet Sukeforth, I. A. Duluth Sutherland, H. N. Ely Swanson, P. E. Virginia Swenson, A. O. Duluth Taylor, C. W. Duluth Tibdetts, M. H. Duluth Tibdetts, M. H. Duluth Tibdetts, M. H. Duluth Tidderquist, D. I. Duluth Vandaren, S. E. Duluth Van Valkenberg, J. D. Floodwood Vercellini, C. E. Duluth Walker, A. E. Duluth Walker, A. E. Duluth Walson, C. Soudan Webber, E. Duluth Wellman, T. G. Virginia Wells, A. H. Duluth Wellman, T. G. Virginia Wells, A. H. Duluth Wilkinson, Stella I. Duluth Winter, J. A. Duluth
Olson, A. O	Shaw, A. WVirginia	Young, T. ODuluth
Parker, W. H	Sinamark, Andrew Hibbing Sisler, C. E. Grand Rapids Slyfield, F. F. Duluth	Young, T. ODuluth Young, V. ADuluth
Parker, O. W	Slyfield, F. F	Zlatovski, M. LDuluth
	AND CARRED COUNTY MEDICAL COCKE	rv
	OTT-CARVER COUNTY MEDICAL SOCIES	
Ke	Annual meeting, June	
	Number of Members: 34	
President	Havel, H. WJordan	Ormond, D. T
Crow, E. RArlington	Hebeisen, M. BChaska	Pearson, B. FShakopee
Secretary Pearson, B. FShakopee	Henriksen, H. GNorthfield	Popue, R. E. Watertown
Pearson, B. FShakopee	Klein, J. CShakopee	Reiter, H. WShakopee
Buck, F. HShakopee	Kortsch, F. P Prior Lake	Rick, P. F. WSt. Paul
Crow F. R. Arlington	Maertz, W. F New Prague	Shrader, J. S
Dowidat, R. WCologne	Malerich, J. AShakopee	Simons, B. H
Eklund, E. JNorwood	Martin, T. PArlington	Westerman, F. C. Montgomery
Fischer, H. PShakopee	Novak, E. ENew Prague	Woodworth, L. FLe Center
Buck, F. H Shakopee Cervenka, C. F. New Prague Crow, E. R. Arlington Dowidat, R. W. Cologne Eklund, E. I. Norwood Emmerson, W. S. Mayer Fischer, H. P. Shakopee Garthe, J. J. Shakopee	Havel, H. W. Jordan Hebeisen, M. B. Chaska Henriksen, H. G. Northfield Juergens, H. M. Belle Plaine Klein, J. C. Shakopee Kortsch, F. P. Prior Lake Kucera, S. T. Lonsdale Maertz, W. F. New Prague Malerich, J. A. Shakopee Martin, T. P. Arlington Nagel, H. D. Waconia Novak, E. E. New Prague Olson, C. J. Belle Plaine	Ormond, D. T. Waconia Pearson, B. F. Shakopee Phillips, W. H. Jordan Pogue, R. E. Watertown Reiter, H. Shakopee Rick, P. F. W. St. Paul Schimelpfenig, G. T. Chaska Shrader, J. S. Jordan Simons, B. H. Chaska Westerman, A. E. Montgomery Westerman, F. C. Montgomery Woodworth, L. F. Le Center Wunder, H. E. Shakopee
	WESTERN MINNESOTA MEDICAL SOC	
	l, Jackson, Murray, Nobles, Pipestone and Roc	
Cottonwood	Regular meetings, November and April	
	Annual meeting, November	
	Number of Members: 61	
President	Dudley, J. HWindom	Nealy, D. EAdrian
Waller, J. DWilmont Secretary	Dudley, J. H Windom Engh, Sigfred. Jackson Halioran, W. H. Jackson Halpern, D. J. Brewster, Harrison, P. W. Worthington Hebbel, Robert Windom Hitchings, W. S. Lakefield Hoyer, L. J. Windom Johnson, R. E. Worthington Kelling, L. F. Lakefield Kilbride, E. A. Worthington Kilbride, J. S. Worthington Kilbride, J. S. Worthington Larson, J. T Lake Wilson Lohmann, J. G. Jasper *Lowe, Thomas Pipestone	Nealy, D. E
DeBoer, HermanusEdgerton	Harrison, P. W Worthington	Rose, J. TLakefield
Amold F W Adrian	Hebbel, Robert	Schutz, E. S. Mountain Lake
Basinger, H. PWindom	Hoyer, L. J	Sether, A. FRuthton
Basinger, H. RMountain Lake	Johnson, R. EWorthington	Sherman C. LWorthington
Arnold, E. W. Adrian Basinger, H. P. Windom Basinger, H. R. Mountain Lake Beckering, Gerrit Edgerton Benjamin, W. G. Pipestone Bofenkamp, F. W. Luverne Bong, J. H. Jasper Brown, A. H. Pipestone Carlson I. V. Westbrook	Kilbride, E. AWorthington	Sjostrom, L. EStorden
Bofenkamp, F. WLuverne	Kilbride, J. SWorthington	Slater, S. AWorthington
Brown A H Pinastona	Lohmann, I. GLake Wilson	Stanley, C. RWorthington
Carlson, J. VWestbrook	*Lowe, Thomas. Pipestone Maitland, D. P. Jackson Maitland, E. T. Jackson McCrea, J. M. Fulda McElmeel, E. F. Pipestone McLane, Evelyn G. Jackson McLane, Evelyn G. Jackson McLane W. O. Jackson	Stevenson, B. MFulda
Chadbourn, A. GHeron Lake	Maitland, D. PJackson	Stratte, H. CWindom
Clark, H. HEdgerton	McCrea, I. MFulda	Tofte, JosephineMinneapolis
Cress, P. JEllsworth	McElmeel, E. FPipestone	Waller, J. DWilmont
DeBoer, HermanusEdgerton	McLane, Evelyn GJackson	Williams, C. APipestone
Doman, V. WLakefield	McLane, W. O Jackson Mork, B. O., Jr	Williams, L. ASlayton
Carlson, J. V. Westbrook Chadbourn, A. G. Heron Lake Chunn, S. Pipestone Clark, H. H. Edgerton Cress, P. J. Ellsworth DeBoer, Hermanus Edgerton Dolan, C. P. Worthington Doman, V. W. Lakefield Doms, H. C. Slayton	Mork, B. O., SrWorthington	Wright, C. OLuverne
	RNS-BENTON COUNTY MEDICAL SOC	
STEA	Regular meetings, third Thursday of the mon	ath
	Annual meeting, third Thursday of December Number of Members: 55	er
President	Adams, L. PSt. Cloud	Deagen, J. R. Freeport Donaldson, C. S. Foley DuBois, J. F. Sauk Center Engstrom, G. F. Belgrade Evans, L. M. Sauk Rapids Fleming, T. N. St. Cloud
Wenner, W. TSt. Cloud	Adams, L. P. St. Cloud Barringer, P. E. St. Cloud Beuning, J. B. St. Cloud Brigham, C. F. St. Cloud Buscher, J. C. St. Cloud Clark, H. B. St. Cloud	Donaldson, C. SFoley
Libert, J. NSt. Cloud	Brigham, C. FSt. Cloud	Engstrom, G. FBelgrade
	Buscher, J. CSt. Cloud	Evans, L. MSauk Rapids
*Deceased.	Clark, H. BSt. Cloud	Fleming, T. NSt. Cloud
17 1000		251

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MAY, 1939

Freeman, W. L St. Cloud Friesleben, William Sauk Rapids Gaida, J. B St. Cloud Goehrs, H. W St. Cloud Haberman, Emil Osakis Halenback, P. L St. Cloud Hemstead, Werner. Brainerd Hendrickson, R. R. St. Cloud Hendrickson, R. R. St. Cloud Hendry, C. J Milaca Holdridge, George Foley Johnson, Walfred. Sauk Center Jones, R. N St. Cloud Kern, M. J St. Cloud Kettlewell, R. B Sauk Center	Kingsbury, E. M. Clearwater Kohler, D. W. St. Joseph Koop, H. E. Cold Spring Koop, S. H. Richmond Kuhlmann, August Melrose Lewis, C. B. St. Cloud Libert, J. N. St. Cloud Mahowald, A. Albany Mass. Max. Chicago, Ill. McDowell, J. P. St. Cloud Meyer, A. A. Melrose Myre, C. R. Faynesville Rathbun, C. A. St. Cloud Rumpf, W. H. St. Cloud Rumpf, W. H. St. Cloud	Sandven, N. O. Paynesville Schatz, F. J. St. Cloud Sher, D. A. Cold Spring Sherwood, G. E. Kimbal Stangl, Fred. St. Cloud Stangl, P. E. St. Cloud Stewart, N. E. St. Cloud Stewart, N. E. St. Cloud Stutton, C. S. St. Cloud Townsend, De Wayne. Brooten Walfred, K. A. St. Cloud Watson, W. J. Holdingford Wenner, W. T. St. Cloud Wiechman, F. H. Cass Lake Zachman, A. H. Melrose
Regu	lar meetings, March, June, September, Decen Annual meeting, January Number of Members: 16	aber
President	Dewey D H Owatonna	
McEnaney, C. TOwatonna	Dewey, D. H Owatonna Ertel, E. Q Ellendale Farabaugh, C. L. Owatonna Hartung, E. H. Claremont Kreuzer, T. C. Owatonna McEnaney, C. T. Owatonna McIntyre, J. A. Owatonna McIby, Benedik. Blooming Prairie	Morehead, D. EOwatonna Nelson, E. JOwatonna Roberts, O. WOwatonna
Roberts, O. WOwatonna	Kreuzer, T. COwatonna McEnaney, C. TOwatonna McIntyre, J. AOwatonna	Nelson, E. J Owatonna Roberts, O. W Owatonna Schaefer, J. F Owatonna Senn, E. W Owatonna *Smersh, J. F Owatonna Stewart, A. B Owatonna
Berghs, L. VOwatonna Carlson, V. WBlooming Prairie	Melby, BenedikBlooming Prairie	Stewart, A. BOwatonna
Aitkin	PPER MISSISSIPPI MEDICAL SOCIETY Beltrami, Cass, Clearwater, Crow Wing, Hu Lake of the Woods, Morrison, Todd and Wad Annual meeting, January	bbard
	Number of Members: 91	
Carlson, H. AAh-Gwah-Ching	Ghostley, Mary CPuposky Gifford, B. LLong Prairie Gilmore, RowlandBemidji Gorenflo, LeilaCass Lake	Lund, W. J
Badeaux, G. IBrainerd	Gilmore, Rowland Bernidji Gorenflo, Leila Cass Lake Grogan, J. S. Wadena Groschupf, T. P. Bernidji Grose, F. N. Clarissa Halliday, G. J. Brainerd Haller, William Bernidji Hanover, R. D. Littlefork Hawkinson, J. P. Crosby Hawkinson, L. F. Oakland, Calif. Healy, R. T. F. Oakland, Calif. Healy, R. T. E. Little Falls Holst, C. F. Little Falls Holst, J. B. Little Falls Holst, J. B. Little Falls Houston, D. M. Park Rapids Hubbard, O. E. Brainerd Hubin, E. G. Deerwood Jacobson, D. J. Bernidji Jamieson, E. F. Brainerd Johnson, C. E. Pine River Johnson, D. L. Little Falls Johnson, E. W. Bernidji Kelly, B. W. Aitkin Lamb, H. L. Little Falls Larson, L. J. Bagley Lauchlin, J. T. Grey Earle	Mason, J. AInternational Falls McCann, D. FBemidji
Adkins, G. HPine River	Groschupi, T. PBemidji	McCann, D. F. Bemdji Mosby, M. E. Long Prairie Mulligan, A. M. Brainerd Mulray, R. A. Aitkin Nelson, N. P. Brainerd Osburn, B. F. International Falls Petraborg, H. T. Aitkin Pierce, C. H. Wadena Potek, David. International Falls Quanstrom, V. E. Brainerd Ratcliffe, J. J. Aitkin Reichelderfer, C. F. Staples Ringle, O. F. Walker Roberts, I. M. Little Falls Shannon, S. Crosby Simons, E. J. Swanville Smith, B. A. Crosby Stein, R. J. Pierz Swedenburg, P. A. Swanville Thabes, J. A., Jr. Brainerd Vandersluis, C. W. Bemidji Watson, A. M. Royalton Watson, J. D. Holdingford Watson, P. T. Cass Lake Whittemore, D. D. Bemidji Will, W. W. Bertha
Badeaux, G. I	Grose, F. N	Murray, R. AAitkin
Borgerson, A. HSebeka	Haller, WilliamBemidji	Osburn, B. FInternational Falls
Bosland, H. GVerndale Bray, K. EPark Rapids	Hawkinson, J. P Crosby	Pierce, C. H
Cardle, G. EBrainerd	Healy, R. TPierz	Quanstrom, V. EBrainerd
Carlson, C. EAh-Gwah-Ching	Hesselgrave, S. SSt. Paul Holst, C. FLittle Falls	Ratcliffe, J. JAitkin Reichelderfer, C. FStaples
Christie, G. R Long Prairie Christie, R. L Long Prairie	Holst, J. BLittle Falls	Ringle, O. F
Cook, J. MStaples	Houston, D. MPark Rapids	Shannon, S. S Crosby
Davis, L. F	Hubin, E. GDeerwood	Smith, B. ACrosby
Davis, R. D	Jacobson, D. JBemidji Jamieson, E. FBrainerd	Stein, R. J
Davis, T. C	Johnson, C. EPine River Johnson, D. LLittle Falls	Thabes, J. A., JrBrainerd
Eiler, JohnPark Rapids	Johnson, E. WBemidji	Vandersluis, C. WBemidji
Fait, R. VLittle Falls	Lamb, H. LLittle Falls	Watson, J. DHoldingford
Frost, H. T	Laughlin, J. TGrey Eagle	Whittemore, D. D Bemidji
Bray, K. E. Park Rapids Campbell, R. W. Cass Lake Cardle, G. E. Brainerd Carlson, C. E. Aitkin Carlson, H. A. Ah-Gawh-Ching Christie, R. L. Long Prairie Cook, J. M. Staples Corrigan, J. F. Waycross, Ga. Davis, L. F. Wadena Davis, L. T. Wadena Davis, R. D. Clearbrook Davis, T. C. Wadena Davis, T. Wadena Davis, T. Wadena Davis, R. D. Clearbrook Davis, T. C. Wadena Fait, G. Wadena Last, John Northome Eiler, John Park Rapids Ericson, M. G. Long Prairie Fait, R. V. Little Falls Fitzsimons, W. E. Brainerd Frost, H. T. Wadena Garlock, A. V. Bemidji Garlock, D. H. Bemidji Gerber, M. P. Brainerd	Larson, L. J. Bagley Laughlin, J. T. Grev Eagle Lee, H. W. Brainerd Leemhuis, G. H. McGregor Lenarz, A. J. Browerville	Waison, D. D. Bemidji Will, W. Bertha Wilson, V. O. Minneapolis Withrow, M. E. International Falls
	WABASHA COUNTY MEDICAL SOCIETY	
	Regular meetings, March, October	
Annual	meeting, first Thursday after first Monday in (Number of Members: 14	
Bouquet, B. JWabasha	Bouquet, B. J	Glabe, R. A
Wilson, W. FLake City	Collins, J. S	Mahle, D. G Plainview Ochsner, C. G
Bayley, E. CLake City	Flesche, B. ALake City Frost, R. HWabasha	Glabe, R. A. Plainview Holt, G. W. Wabasha Mahle, D. G. Plainview Ochsner, C. G. Wabasha Replogle, W. H. Wabasha Slocumb, J. A. Plainview Wilson, W. F. Lake City
	WASECA COUNTY MEDICAL SOCIETY Regular meetings, none Annual meeting, January	
Provident	Number of Members: 10	
Chadbourn, C. RJanesville	Bernstein, W. CNew Richland Chadbourn, C. RJanesville	McIntire, H. MWaseca Oeljen, S. C. GWaseca
Olds, G. HWaseca	Cummings, D. WWaseca Gallagher, B. JWaseca	Olds, G. H
*Deceased.	Hottinger, R. CJanesville	Wadd, C. TWaseca
352		MINNESOTA MEDICINE

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Bo Bro

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WASHINGTON COUNTY MEDICAL SOCIETY										
Regular	meetings,	second	Tuesday	in January	, February,	March,	April,	May,	September,	October
					and Dece					

Annual meeting second Tuesday in December Number of Members: 17

McCarten, F. MStillwater	Ewald, R. PNewport Gray, R. CStillwater	McCarten, F. MStillwater Mingo, F. EHugo
Secretary Boleyn, E. SStillwater	Haines, J. HStillwater Humphrey, W. RStillwater	Poirier, J. AForest Lake Ruggles, G. McCForest Lake Samson, E. RStillwater
	Johnson, R. GStillwater Josewski, R. JStillwater	Strand E. VBayport Street, BernardStillwater
Boleyn, E. S Stillwater Brooks, G. F Stillwater	Kalinoff, DStillwater	Stuhr, J. WStillwater

WATONWAN COUNTY MEDICAL SOCIETY

Regular meeting, at call Annual meeting, December Number of Members: 8

President Hammar, L. MButterfield Secretary Grimes, H. BMadelia	Bergman, O. B. St. James Bratrude, E. J. St. James Bregel, F. L. St. James Grimes, H. B. Madelia	Hagen, O. E
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WEST CENTRAL MINNESOTA MEDICAL SOCIETY Big Stone, Pope, Stevens, and Traverse Counties

Regular meetings, March, May, October, December Annual meeting October Number of Members: 26

McIver, B. ALowry	Doleman, N. FTintah	Lindberg, A. L
McIver, B. ALowry	Eberlin, E. AGlenwood	Linde, HermanCyrus
Secretary	Elsey, E. McCGlenwood	McIver, B. ALowry
Linde, HermanCyrus	Elsey, J. RGlenwood	Mooney, L. PGraceville
	Engdahl, F. WOrtonville	Muir, W. FGraceville
Arneson, A. I	Ewing, C. FWheaton	O'Donnell, D. MOrtonville
Behmler, F. W	Fitzgerald, E. TMorris	Oliver, C. IGraceville
Bergan, OttoClinton	Garrow, D. MGraceville	Oliver, I. LGraceville
Bolsta, CharlesOrtonville		Ransom, M. L
Caine, C. E	Giesen, A. FStarbuck	
Cumming T F Morris	Karn R. ROrtonville	Shelver, H. IOrtonville

WINONA COUNTY MEDICAL SOCIETY

Regular meetings, first Monday in January, April, July, October
Annual meeting, first Monday in January

Number of Members: 29

Page, R. L	Loomis, G. L	Roth, F. D. Lewiston Satterlee, H. W. Lewiston Schaefer, Samuel Winona Steiner, I. W. Winona
Benoit, F. T	Nauth, W. WWinona Neumann, C. AWinona Nilles, L. JRollingstone	Tweedy, G. J
Heise, W. F. C. Winona Jacobs, L. G. Winona Keyes, J. D. Winona Lindsay. W. V. Winona	Page, R. L. St. Charles Risser, E. D. Winona Robbins, C. P. Winona Roemer, H. J. Winona	Walker, G. H. Winona Whetstone, S. D. Winona Wilson, R. H. Winona Younger, L. Winona

WRIGHT COUNTY MEDICAL SOCIETY

Regular meetings, quarterly Annual meeting, first Wednesday after first Monday in October Number of Members: 18

Catlin, T. J. Buffalo Catlin, J. J. Buffalo Anderson, W. P. Buffalo Bendix, L. H. Annandale Catlin, J. Buffalo	Catlin, T. J. Buffalo Ellison, F. E. Monticello Greenfield, W. T. Delano Grundset, O. J. Montrose Harriman, L. Howard Lake Hart, W. E. Monticello Lee, J. L. Watertown Peterson, O. L. Cokato	Phillips, A. Delano Ridgway, A. Annandale Roholt, C. L. Waverly Rolig, D. Howard Lake Rousseau, Victor Maple Lake Thielen, R. D. St. Michael Thompson, Arthur. Cokato
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ALPHABETIC ROSTER

Aagaard, G. N., Jr.	Minneapolis
Aanes, A. R.	Red Wing
Abbott, C. B	Springheld
Aborn, W. H Abraham, A. L	
Abramson, Milton	Minneapolis
Adams, J. M	Minneapolis
Adams, R. C	Bird Island
Adams, R. C	Rochester
Addy, E. R	Thief River Falls
Adkins, G. H	Pine River
Affeldt, D. E	
Ahlis, J. J	
Ahrens, A. E	St. Paul
Ahrens, R. S	Minneapolis
Akester, Ward	Marshall
Alberts, M. W	St. Paul
Alden, J. F	St. Paul
Alexander, H. A	Minneapolis Minneapolis
Allen, A. W	Austin
Allen, E. V. N	Rochester
Allen, H. W	Minneapolis
Allison, R. G	Minneapolis
Alvarez, W. C	Rochester
Andersen, A. G	Minneapolis
Anderson, D. D	Minneapolis
Anderson, E. M	Lamberton
Anderson, E. R Anderson, F. J	Minneapolis
Anderson, H. R	Deer River
Anderson, K. W	Minneapolis
Anderson, N. E	
Anderson, R. E	
Anderson, U. S	Minneapolis
Anderson, W. P	Buffalo
Andreassen, E. C	Minneapolis
Andrews, R. S	Mankato Minneapolis
Annis, H. B Archer, G. F., Jr	Atlanta, Georgia
Arends, A. L	Sandstone
Arlander, C. E	Minneapolis
Armstrong, E. L	Desleith
Armstrong T M	St. Paul
Armstrong, J. M Arndt, H. W	St. Paul
Armstrong, J. M Arndt, H. W Arneson, A. I Arnold, Anna W.	St. Paul Detroit Lakes Morris Minneapolis
Armstrong, J. M Arndt, H. W Arneson, A. I Arnold, Anna W. Arnold, D. C Arnold, E. W	St. Paul Detroit Lakes Morris Minneapolis Minneapolis Adrian
Armstrong, J. M Arndt, H. W Arneson, A. I Arnold, Anna Arnold, D. C Arnold, E. W Arnold, J. E Arnold, J. E	St. Paul Detroit Lakes Morris Minneapolis Minneapolis Adrian Mountain Iron St. Paul
Armstrong, J. M Arndt, H. W Arneson, A. I Arnold, Anna W. Arnold, D. C Arnold, E. W. Arnold, J. E. Arnquist, A. S Arnson, J. M Arvidson, C. G	St. Paul Detroit Lakes Morris Minneapolis Minneapolis Adrian Mountain Iron St. Paul Benson Minneapolis
Armstrong, J. M Arndt, H. W Arneson, A. I Arnold, Anna W. Arnold, D. C Arnold, E. W. Arnold, J. E Arnquist, A. S Arnson, J. M Avidson, C. G Athens, A. G Aune Martin.	St. Paul Detroit Lakes Morris Minneapolis Minneapolis Adrian Mountain Iron St. Paul Benson Minneapolis Duluth Minneapolis
Armstrong, J. M Arndt, H. W Arneson, A. I Arnold, Anna W. Arnold, D. C Arnold, E. W. Arnold, J. E Arnquist, A. S. Arnson, J. M. Avridson, C. G Athens, A. G. Aune, Martin Aurand, W. H. Aurelius, J. R.	St. Paul Detroit Lakes Morris Minneapolis Minneapolis Adrian Mountain Iron St. Paul Benson Minneapolis Duluth Minneapolis Minneapolis St. Paul
Aagaard, G. N., Jr. Aanes, A. M. Aanes, A. R. Abbott, C. B. Abbott, C. B. Abbott, J. S. Aborn, W. H. Abraham, A. L. Abraham, B. S. Adams, B. S. Adams, B. S. Adams, R. C. Addington, E. A. Addy, E. R. Addins, G. M. Addins, G. M. Adkins, G. M. Aldins, G. M. Aldins, G. M. Aldins, G. M. Ahrens, A. E. Ahrens, A. E. Ahrens, A. H. Ahrens, R. S. Aitkens, H. B. Akester, Ward Akins, W. M. Alden, J. F. Alexander, F. H. Alison, R. G. Allen, A. W. Allen, H. W. Allen, H. W. Allen, H. B. Allison, R. G. Allen, H. W. Allen, H. B. Allison, R. G. Anderson, D. Anderson, E. D. Anderson, E. D. Anderson, E. M. Anderson, F. J. Anderson, W. S. Anderson, J. K. Anderson, W. S. Anderson, J. K. Anderson, W. S. Anderson, J. K. Ander	St. Paul Detroit Lakes
Ayres, G. T	
Ayres, G. T	
Autry, D. H Ayres, G. T Babcock, F. M Bachnik, F. W Bacon, D. K	
Autry, D. H Ayres, G. T Babcock, F. M Bacon, D. K Bacon, D. K Bacon, P. S.	Northfield Hibbing St, Paul St, Paul Montevideo
Autry, D. H Ayres, G. T Babcock, F. M Bacon, D. K Bacon, D. K Bacon, P. S.	St. Paul Detroit Lakes

Bagley, C. M	Duluth
Bagley, Elizabeth C	Duluth
Bagley, W. R	Duluth
Bagley, W. R Bagwell, J. S., Jr	Rochester
Bailey, A. A	Rochester
Bailey, H. B	Fairmont
Bailey, H. B Bair, H. L	Rochester
Baken, M. P	Minneapolis
Baker, A. B	Minneapolis
Baker, A. C	Fergus Falls
Baker, A. T	Minneapolis
Baker, E. L	Minneapolis
Baker, H. R	Hayfield
Baker, Looe	Minneapolis
Baker, N. H	Fergus Falls
Baker, R. L	Hayfield
Baker, Theodore, Jr	Rochester
Bakkila, H. E	Duluth
Balcome, M. M	St Paul
Balfour, D. C	Rochester
Balkin, S. G	Minneapolis
Barber, J. P	Minneapolis
Bardon, Richard	Duluth
Bargon I A	Pochester
Bargen, J. A Barker, N. W	Pochester
Barnes, A. R	Pochester
Barney, L. A	Duluth
Part I C	Albert Ten
Barr, L. C	Wolle
Barr, W. H	Dedeth
Parrett, E. E.	St Cloud
Darringer, P. E	Duluth Duluth Duluth Duluth Duluth Duluth Rochester Rosener Fairmont Rochester Minneapolis Minneapolis Minneapolis Minneapolis Minneapolis Hayfield Minneapolis Fergus Falls Minneapolis Fergus Falls Minneapolis Fergus Falls Minneapolis Fergus Falls Hayfield Rochester Duluth St. Paul Rochester Minneapolis Minneapolis Minneapolis Moneapolis Moneapolis Minneapolis Minneapolis Minneapolis Minneapolis Duluth Rochester Rochester Rochester Rochester Louluth Albert Lea Wells Duluth St. Cloud Minneapolis
Barron, Moses	Minneapolis
Barry, L. W	St. Paul
Barsness, Nellie O.	NSt. Paul
Basinger, H. P	Windom
Basinger, H. R	Mountain Lake
Basom, W. C	Rochester
Bass, G. W	Minneapolis
Baxter, S. H	Minneapolis
Bayard, H. F	Minneapolis
Bayley, E. C	Lake City
Beadie, W. D	Cannon Falls
Beals, Hugh	St. Paul
Beard, A. H	Minneapolis
Becker F. T	Duluth
Beckering, Gerrit	Edgerton
Beckman, W. G	Minneapolis
Redard R E	Kankakaa III
Bedford, E. W	Minneapolis
Bedford, E. W	Minneapolis
Bedford, E. W Beech, R. H Beede, Ethel R	Minneapolis St. Paul Faribault
Bedford, E. W Beech, R. H Beede, Ethel R Beek H. O.	Minneapolis St. Paul Faribault St. Paul
Bedford, E. W Beech, R. H Beede, Ethel R Beek, H. O	
Bedford, E. W Beech, R. H Beede, Ethel R Beek, H. O Behmler, F. W	Minneapolis St. Paul Faribault St. Paul Faribault Construction Crookston
Bedford, E. W Beech, R. H Beede, Ethel R Beek, H. O Behmler, F. W Behr, O. K	Minneapolis St. Paul Faribault St. PaulMorris Crookston Brainerd
Bedford, E. W Beech, R. H Beede, Ethel R Beek, H. O Behmler, F. W Behr, O. K Beise, R. A	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff
Bedford, E. W	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester
Bedford, E. W. Beech, R. H. Beech, Ethel R. Beek, H. O. Behnler, F. W. Beise, R. A. Beise, R. A. Beizer, L. H. Beizer, L. H. Bell	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul
Bedford, E. W. Beech, R. H. Beede, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Beile, C. C. Bell, C. C.	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul
Bedford, E. W. Beech, R. H. R. Beech, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beise, R. A. Beizer, L. H. Bell, C. C. Bell, E. T.	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul
Bedford, E. W. Beech, R. H. Beede, Ethel R. Beek, H. O. Behnler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Beil, C. C. Bell, E. T. Belote, G. B. Belser, M. S.	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Winneapolis Caledonia
Bedford, E. W. Beech, R. H. Beech, Ethel R. Beek, H. O. Behnler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Beizer, L. H. Bell, C. C. Bell, E. T. Belote, G. B. Belzer, M. S. Bezer, M. S.	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big. Pork
Bedford, E. W. Beech, R. H. Beede, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Beil, C. C. Bell, E. T. Belote, G. B. Beizer, M. S. Bender, J. H.	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Pork
Bedford, E. W. Beech, R. H. Beech, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Beizer, L. H. Bell, E. T. Bell, E. T. Belote, G. B. Belzer, M. S. Bender, J. H. Bendix, L. H. Bendix, L. H.	Minneapolis St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annandale
Bedford, E. W. Beech, R. H. Beede, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Bell, C. C. Bell, E. T. Belote, G. B. Belzer, M. S. Bender, J. H. Bender, J. H. Bendert, W. L. Bendert, V. L.	Minneapolis St. Paul Paribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annaudale Rochester St. Paul
Bedford, E. W. Beech, R. H. Beech, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Beizer, I. H. Bell, C. C. Bell, E. T. Belote, G. B. Belzer, M. S. Bender, J. H. Bendix, L. H. Benedict, W. L. Benepe, J. L.	Minneapolis St. Paul Faribault St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis
Bedford, E. W. Beech, R. H. Beede, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Bell, C. C. Bell, E. T. Belote, G. B. Belzer, M. S. Bender, J. H. Bender, J. H. Bender, J. H. Benedict, W. L. Benech, N. G. Benech, N. G.	Minneapolis St. Paul Paribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis Maneapolis Maneapolis Maneapolis
Bedford, E. W. Beech, R. H. Beech, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Beizer, L. H. Bell, C. C. Bell, E. C. Belly, G. B. Belzer, M. S. Bender, J. H. Bendix, L. H. Benedict, W. L. Benepe, J. L. Benespe, J. L. Benespe, J. L. Benesham, E. W. Benesper, M. Benesper, J. L. Benesham, E. W.	Minneapolis St. Paul Faribault St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis Mankato Minneapolis
Bedford, E. W. Beech, R. H. Beede, Ethel R. Beek, H. C. Behnler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Bell, C. C. Bell, E. T. Bell, E. T. Belote, G. B. Belzer, M. S. Bender, J. H. Bender, J. H. Benedict, W. L. Benesh, N. G. Beensam, E. W. Beenjamin, A. E. Benjamin, A. E.	Minneapolis St. Paul Paribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis
Bedford, E. W. Beech, R. H. Beech, Ethel R. Beek, H. O. Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Bell, C. C. Bell, E. T. Belote, G. B. Belzer, M. S. Bender, J. H. Bendix, L. H. Bendix, L. H. Benedict, W. L. Benepe, J. L. Benepe, J. L. Benesham, E. W. Benjamin, A. E. Benjamin, A. E. Benjamin, G.	Minneapolis St. Paul Faribault St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis
Barrey, L. A. Barrey, L. A. Barr, W. H. Barrett, E. E. Barringer, P. E. Barringer, P. E. Barringer, P. E. Barron, Moses Barry, L. W. Barsness, Nellie O. Basinger, H. P. Bassom, W. C. Bass, G. W. Baxter, S. H. Bayard, H. F. Bayley, E. C. Beadie, W. D. Bealie, W. D. Bealie, W. D. Bealie, W. D. Beadie, W. D. Beadie, W. D. Beadie, W. D. Beadie, W. D. Beeder, F. T. Beckering, Gerrit Beckman, W. G. Beckering, Gerrit Beckman, W. G. Beech, R. H. Beede, Ethel R. Beek, H. O. Beeh, O. K. Beise, R. A. Beiswanger, R. H. Bell, C. C. Bell, E. T. Bell, C. C. Bell, E. T. Belote, G. B. Belzer, M. S. Bender, J. H. Benedict, W. L. Benesh, N. G. Beensamin, E. G. Benjamin, E. G. Benjamin, E. G. Benjamin, E. G. Benjamin, H. G.	Minneapolis St. Paul Paribault St. Paul St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis
Bedford, E. W. Beech, R. H. Beech, R. H. Beek, H. O Behmler, F. W. Behr, O. K. Beise, R. A. Beiswanger, R. H. Bell, C. C. Bell, E. T. Belote, G. B. Belzer, M. S. Bender, J. H. Bendix, L. H. Bendix, L. H. Benedict, W. L. Benepe, J. L. Benespe, J. L. Benespe, J. L. Benespe, J. L. Benesmin, E. G. Benjamin, A. E. Benjamin, H. G. Benjamin, H. G. Benjamin, H. G. Benjamin, G. G.	Minneapolis St. Paul Faribault St. Paul Faribault St. Paul Morris Crookston Brainerd Wykoff Rochester St. Paul Minneapolis Caledonia Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis Big Fork Annandale Rochester St. Paul Minneapolis Fipestone
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Biedermann,	Jacob. Thief River Falls	19
Bigelow, C.	. E Dodge Center	
Billings, R.	E Franklin	
Rinet H	E Grand Ravida	
Ringer H	E St David	
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	Litchfield

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La Vak	, J.	T			Minnes	agie
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Lax, M.		***				Paul
Laymon		W.			Minnea	
	H. L			****	Minnea	
Leahy,	Barth	olor	new		St.	Paul
Leavenv	vorth,	R.	0		St.	Paul
Leavitt,	H.	H			Minnea	polis
Lebowsl	re. T.	. A.			Minnea	
Leck, I	. C.				A	ustin
Le Cler	cq, (; T	. A.		Minnea	nolis
Leddy,	E. T					ester
Lee, H	M				Minnea	nolis
Lee, H	W				Rea	inard
Lee, J.	I				Bra .Water	town
Lee ii	A				. water	Falls
Lee, W	37			P	ergus	rails
Lee, W	14	****			· · · Ma	dison
Leffel.	M	. 1			Roch	ester
Leemhu	is. G	H			McG	regor
Leibold,	H.	H		Par	kers P	rairie
Leick.	R. M				St.	Paul
Leitch,	Arch	ibal	d		St.	Paul
Leitch.	N. 1	M			Wa	Paul rroad
Leland,	H.	R			Minnea	nolis
Leland,	IT				He	rman
Lemon,	337	6				ester
	VV .	D			Roci	Dotos
T.enande	r, M	. E				Peter
Lenarz,	A	J			Browe	rville
Lende,	Nor	man			Fari	bault
Lenont,	C. 1	B			Vir	ginia
Lenz. J	. R				M	orton
Lenz, (). A.				Minnea	polis
Leonard	. L.	T			Minnea	
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Leopard		Δ			Minnea Albert	Lea
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Lerche,	33771				* * * * * * * * *	E CREAT
					Cable	
	AT T	Harin			Cable,	Wis.
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Leven, Levin, Levitt,	N. I B. G G. X				St. St.	Wis. Paul Paul Paul
Leven, Levin, Levitt, Lewis,	N. I B. G G. X A. J.				St. St. Her	Wis. Paul Paul Paul nning
Leven, Levin, Levitt, Lewis, Lewis,	N. I B. G G. N A. J. C. B.				St. St. Her	Paul Paul Paul nning Cloud
Leven, Levin, Levitt, Lewis, Lewis,	N. I B. G G. X A. J. C. B. E. F				St. St. Her	Wis. Paul Paul Paul nning
Leven, Levin, Levitt, Lewis,	G. X A. J. C. B.				St. St. St. Her St. G	Paul Paul Paul Paul nning Cloud nester
Leven, Levin, Levitt, Lewis, Lewis, Lewis, Lexa, H	G. X A. J. C. B.	3			St. St. Her St. (Rock Lon	Paul Paul Paul Paul nning Cloud nester
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Leven, Levin, Levitt, Lewis, Lewis, Lews, Lexa, Libert, Lick, C Liedloff Liffrig, Lillehei Lillie, Lima.	G. X A. J. C. B.	G. W.			St. St. Her St. (Construction of the construction of t	Wis. Paul Paul Paul nning Cloud eester schale Paul nkato odhue schale eester video
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Love,	F. A				Carlo	S
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Lufkin,	C.	D			Northfiel	d
Lufkin,	N.	H		M	linneapoli	S
Lund.	W.	J			Staple	d
Lundbla	id, I	R. A.		M	linneapoli	S
Lundgr	en,	A. C.		M	linneapoli	S
Lundho	ist.	A. A E. F.	1	M	St. Pau Iinneanoli	ıl
Lundy,	J. ,	S			. Rocheste	r
Lyght,	C. I	E			Willma Northfiel	d
Lynch,	F.	W			St. Pat	ıî
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MacDo	nald,	D.	A	M	Inneapoli	is
MacFai	lane,	P.	Н		. Chisholi	n
Mach,	F. B		T.	N	linneapol	is
MacKa	y, A	. R.		ittle b	Rocheste	r
Macklin	non,	D.	C	N	Litchfiel	d
MacLea	in. A	A. R			Rocheste	r
Mac Ra	G.	S		N	linneapol	h
Madder	, J.	F			St. Par	11
Madlan	d, R	. F.			Fairfa	X
Maeder	, E.	C		N	Inneapol	is
Magath	. T.	B			. Rocheste	er
Magney Mable	p.F.	GH			Plainvie	h
Mahow	ald,	Aloy	S		Alban	y
Maitlar	id, I	D. P. T.			Jackso	n
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Malloy	j. '	F		Thief I	River Fal	ls
Malmst	rom,	J.	A		Virgin	ia
Manley	L.	V	No	thamp	ton, Mas	s.
Mann,	F.	S			. Rochesto	er
Marcle	y, D	. M.			. Rocheste	er
Marcur	n. E.	. H.			Bemid	ii
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McCarthy W P	St Paul
McCartney I S	Minneapolis
McCarty, P. D	Ely
McCarty, W. C	Rochester
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McClanahan, T. S	.White Bear Lake
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McCoy, Mary K	Duluth
McCrea, James	Fulda
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McDaniel, S. F	Duluth
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McKenna, M. J	Grand Rapids
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McKinlay C A	Minneapolis
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McLane, W. O	Jackson
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McManamy, E. P.	St Paul
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Meade, J. R	Minneapolis Duluth St. Paul St. Paul Rochester
Meade, C. H Meade, J. R Mears, B. J Mecray, P. M., Jr Medelman, J. P	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul
Mead, C. H Meade, J. R Mears, B. J Mecray, P. M., Jr Medelman, J. P Meinert, A. E	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul Winona
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Meade, J. R	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul Winona Minneapolis Blooming Prairie Thief River Falls
Meade, J. R. Meade, J. R. Mears, B. J. Mecray, P. M., Jr Medelman, J. P., Meinert, A. E., Meland, E. L. Melby, Bendik, Mellby, O. F. Melzer, G. R.	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul Winona Minneapolis Blooming Prairie Thief River Falls Lyle
Mead, C. H	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul Winona Minneapolis Blooming Prairie Thief River Falls Lyle Crookston
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Meade, J. R. Meade, J. R. Mears, B. J. Mecray, P. M., J. Medelman, J. P. Meinert, A. E. Melby, Bendik Mellby, O. F. Melzer, G. R. Mercil, W. F. Merkert, C. E. Merkert, G. L. Merrill, Elisabeth Merriman, L. L.	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul Winona Minneapolis Blooming Prairie Thief River Falls Lyle Crookston Minneapolis Minneapolis Minneapolis Minneapolis
Meade, J. R. Meade, J. R. Mears, B. J. Mecray, P. M., Jr Medelman, J. P Meinert, A. E. Meland, E. L. Melby, O. F. Mellby, O. F. Melzer, G. R. Mercil, W. F. Merkert, C. E. Merrill, Elisabeth, Merrill, Elisabeth, Merritt, W. A.	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul Winona Minneapolis Blooming Prairie Thief River Falls Crookston Minneapolis Minneapolis Minneapolis Minneapolis Monneapolis Monneapolis Monneapolis Monneapolis Monneapolis Monneapolis
Mead, C. H	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul Winona Minneapolis Blooming Prairie Thief River Falls Lyle Crookston Minneapolis Minneapolis Minneapolis Duluth Rochester Olivia
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Mead, C. H	Minneapolis Duluth St. Paul St. Paul Rochester St. Paul Winona Minneapolis Blooming Prairie Thief River Falls Crookston Minneapolis Minneapolis Minneapolis Olivia Mochester Olivia Melrose Minneapolis
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Mead, C. H Meade, J. R Mears, B. J Meeray, P. M., Jr. Medelman, J. P Meinert, A. E Meland, E. L Melby, Bendik Mellby, O. F Mercil, W. F Mercil, W. F Merkert, G. E Merrill, Elisabeth. Merriman, L. L Merritt, W. A Mesker, G. H Meyer, A. A Meyer, E. L. Meyer, F. C Meyer, J. O Meyer, P. F Meyer, Meyerding, E. A Meyerding, E. A Meyerding, H. W. Michael, J. C. Michelson, H. E. Miller, H. A. Miller, H. E.	Minneapolis Duluth St. Paul Rochester St. Paul Rochester St. Paul Winona Minneapolis Blooming Prairie Thief River Falls Lyle Crookston Minneapolis Minneapolis Minneapolis Minneapolis St. Paul Rochester Olivia Melrose Minneapolis St. Paul Rochester Minneapolis Faribault St. Paul Rochester Minneapolis Faribault St. Paul Rochester Minneapolis Minneapolis Minneapolis Minneapolis Minneapolis Fairmont Minneapolis Minneapolis
Mead, C. H	St. Paul Minneapolis Rochester White Bear Lake White Bear Lake Duluth Duluth Fulda L. Rochester Minneapolis Virginia Duluth Rochester St. Cloud Pipestone Owatonna Minneapolis
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Miller, J. M Miller, V. I Miller, W. A Mills, J. L Milton, J. S Miners, G. A	
Miller, J. M. Miller, V. L. Miller, W. A. Mills, J. L. Milton, J. S. Mingo, F. E. Mingo, F. E.	Rochester Mankato New York Mills Winnebago Minneapolis Deer River Hugo
Miller, J. M. Miller, V. L. Miller, W. A. Mills, J. L. Milton, J. S. Mingo, F. E. Mingo, F. E.	Rochester Mankato New York Mills Winnebago Minneapolis Deer River Hugo
Miller, J. M. Miller, V. L. Miller, W. A. Mills, J. L. Milton, J. S. Miners, G. A. Mingo, F. E. Mitchell, E. C. Mitchell, R. S.	Rochester Mankato New York Mills Winnebago Minneapolis Deer River Hugo Minneapolis Grand Meadow
Miller, J. M. Miller, V. L. Miller, W. A. Mills, J. L. Milton, J. S. Miners, G. A. Mingo, F. E. Mitchell, E. C. Mitchell, R. S.	Rochester Mankato New York Mills Winnebago Minneapolis Deer River Hugo Minneapolis Grand Meadow
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Miller, J. M. Miller, V. L. Miller, W. A. Mills, J. L. Milton, J. S. Miners, G. A. Mingo, F. E. Mitchell, E. C. Mitchell, R. S.	Rochester Mankato New York Mills Winnebago Minneapolis Deer River Hugo Minneapolis Grand Meadow
Miller, J. M. Miller, V. L. Miller, W. A. Mills, J. L. Milton, J. S. Miners, G. A. Mingo, F. E. Mitchell, E. C. Mitchell, R. S.	Rochester Mankato New York Mills Winnebago Minneapolis Deer River Hugo Minneapolis Grand Meadow
Miller, J. M. Miller, V. L. Miller, W. A. Mills, J. L. Milton, J. S. Miners, G. A. Mingo, F. E. Mitchell, E. C. Mitchell, R. S.	Rochester Mankato New York Mills Winnebago Minneapolis Deer River Hugo

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Moir, W. W. Minneapolis Molander, H. A. St. Paul Monroe, P. B. Two Harbors Monson, E. M. Minneapolis
Molander, H. ASt. Paul
Monroe, P. BTwo Harbors
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